

CDP-C435/C535

SERVICE MANUAL

US Model
Canadian Model
CDP-C435/C535
AEP Model
E Model
CDP-C535
Australian Model
CDP-C435

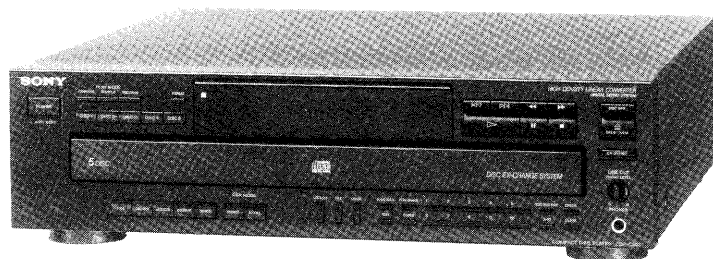


Photo : CDP-C535

COMPACT
disc
DIGITAL AUDIO

Model Name Using Similar Mechanism	CDP-C225/C325	
Optical Pick-up Block Type	C435	BU-5BD10B
	C535	BU-5BD11B

SPECIFICATIONS

Compact Disc Player

System	Compact disc digital audio system
Laser	Semiconductor laser
Wavelength	780-790 nm
Frequency response	2 Hz-20 kHz (± 0.5 dB)
Signal to noise ratio	More than 107 dB
Dynamic range	More than 98 dB
Harmonic distortion	Less than 0.0035%
Channel separation	More than 100 dB

Outputs

LINE OUT (FIXED) (phono jacks)	Output level 2 V (at 50 kilohms, non DSP mode.) Load impedance over 10 kilohms
LINE OUT (VARIABLE) (phono jacks)	Output level max. 2V (at 50 kilohms, non DSP mode.) Load impedance over 50 kilohms
DIGITAL OUTPUT (OPTICAL) (optical output connector)	Wave length 660 nm (CDP-C535 : AEP) Output level -18 dBm
PHONES (stereo phone jack)	Output level max. 10 mW Load impedance 32 ohms

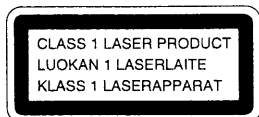
General

Power requirements	Model for the USA and Canada 120 V AC, 60 Hz Model for Australia 240V AC, 50/60 Hz Model for Continental Europe 220 - 230 V AC, 50/60 Hz Model for other countries 110 - 120 or 220 - 240 V AC adjustable, 50/60 Hz
Power consumption	14 W
Dimensions (approx.)	430 x 125 x 385 mm (w/h/d) (17 x 5 x 15 1/4 inches) (CDP-C535/C435) Including projecting parts and controls
Mass (approx.)	5.7 kg , net (12 lbs 10oz) (CDP-C535/C435)
Remote Commander	RM-D535 (CDP-C535) RM-D435 (CDP-C435)
Remote control system	Infrared control
Power requirements	3 V DC with two size AA batteries (IEC designation R6)
Dimensions	62 x 20 x 175 mm (w/h/d) (2 1/2 x 13/16 x 7 inches)
Mass	130 g (4.6 oz) including batteries

Design and specifications are subject to change without notice.



COMPACT DISC PLAYER
SONY®



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

The following caution label is located inside of the unit.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN, AVOID EXPOSURE TO BEAM.

ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEADSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA DLET ALTTIINA LASERSÄTEILYLLE.

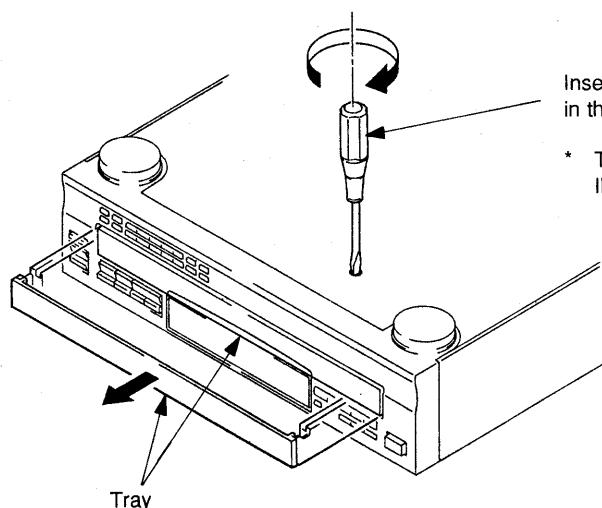
VARNING : LASERSTRÅLING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URÖPPPLAD.

ADVERSEL: USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

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HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF



Insert a tapering driver into the aperture of the unit bottom, and turn in the direction of arrow (to OUT direction).

* To close the disc tray, turn the driver in the reverse direction (to IN direction).

SAFETY-RELATED COMPONENT WARNING!!

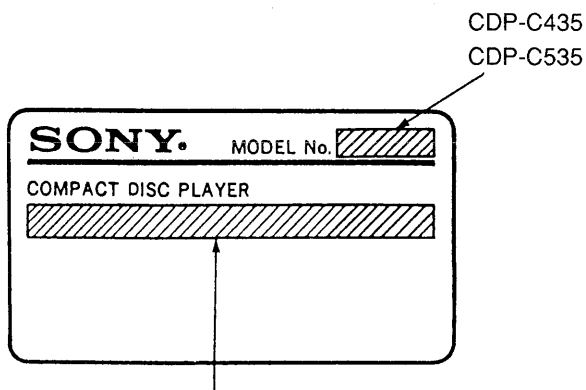
COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION

—Model Number Label—



US, Canadian model: AC: 120V 60Hz

Australian model: AC: 240V~50/60Hz

AEP model: AC: 220-230V~50/60Hz

E model: AC: 110-120V, 220-240V~50/60Hz

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30cm away from the objective lens.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

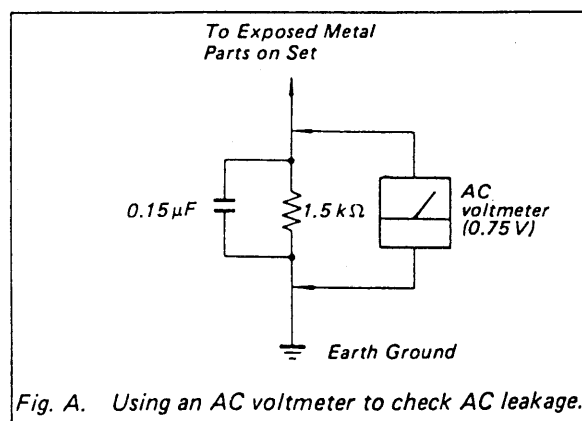


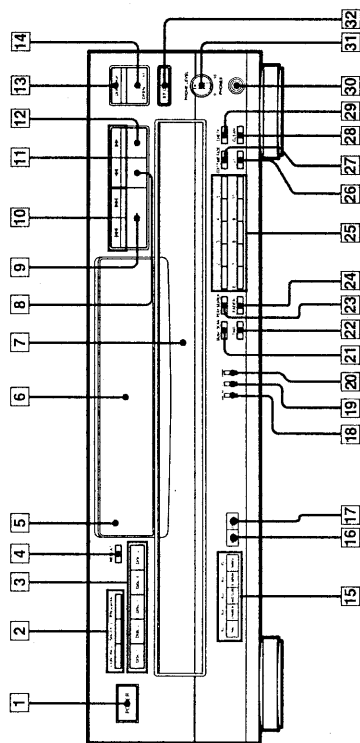
Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1 GENERAL

This section is extracted from instruction manual.

Identifying the Parts

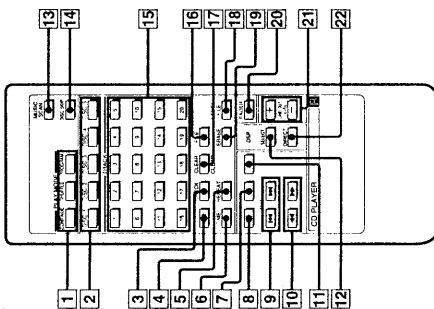
Front Panel



See the pages indicated in () for details.

- 1 POWER switch (8)
 - 2 PLAY MODE buttons
 - CONTINUE button (8)
 - SHUFFLE button (15)
 - PROGRAM button (16)
 - 3 DISC 1-5 buttons (8)
 - 4 REPEAT button (20)
 - 5 Remote sensor (4)
 - 6 Display window (8)
 - 7 Disc tray (8)
 - 8 II (pause) button (8)
 - 9 ► (play) button (8)
 - 10 ◀◀◀►►► (AMS*) buttons (10)
 - 11 ◀ (stop) button (8)
 - 12 DISC SKIP button (8)
 - 13 OPEN/CLOSE button (8)
 - 14 DSP mode buttons and indicators (12) (CDP-C535 only)
 - 15 HALL button
 - 16 CHURCH button
 - 17 JAZZ CLUB button
 - 18 STADIUM button
 - 19 DANCE button
 - 20 DIRECT button (CDP-C535 only) (12)
 - 21 DSP FILE button (CDP-C535 only) (29)
 - 22 LEVEL FILE button (28)
 - 23 FILE button (25)
 - 24 ERASE button (25)
 - 25 MUSIC SCAN button (19)
 - 26 TIME button (9)
 - 27 PEAK SEARCH button (21)
 - 28 FADER button (14)
 - 29 Numeric buttons (10)
 - 30 >10 (over 10) button (10)
 - 31 EDIT/TIME FADE button (22)
 - 32 CLEAR button (16)
 - 33 CHECK button (18)
 - 34 PHONES jack (9)
 - 35 LINE OUT/PHONE LEVEL control (9)
 - 36 EX-CHANGE button (11)
- * AMS is the abbreviation for Automatic Music Sensor.

Remote Commander

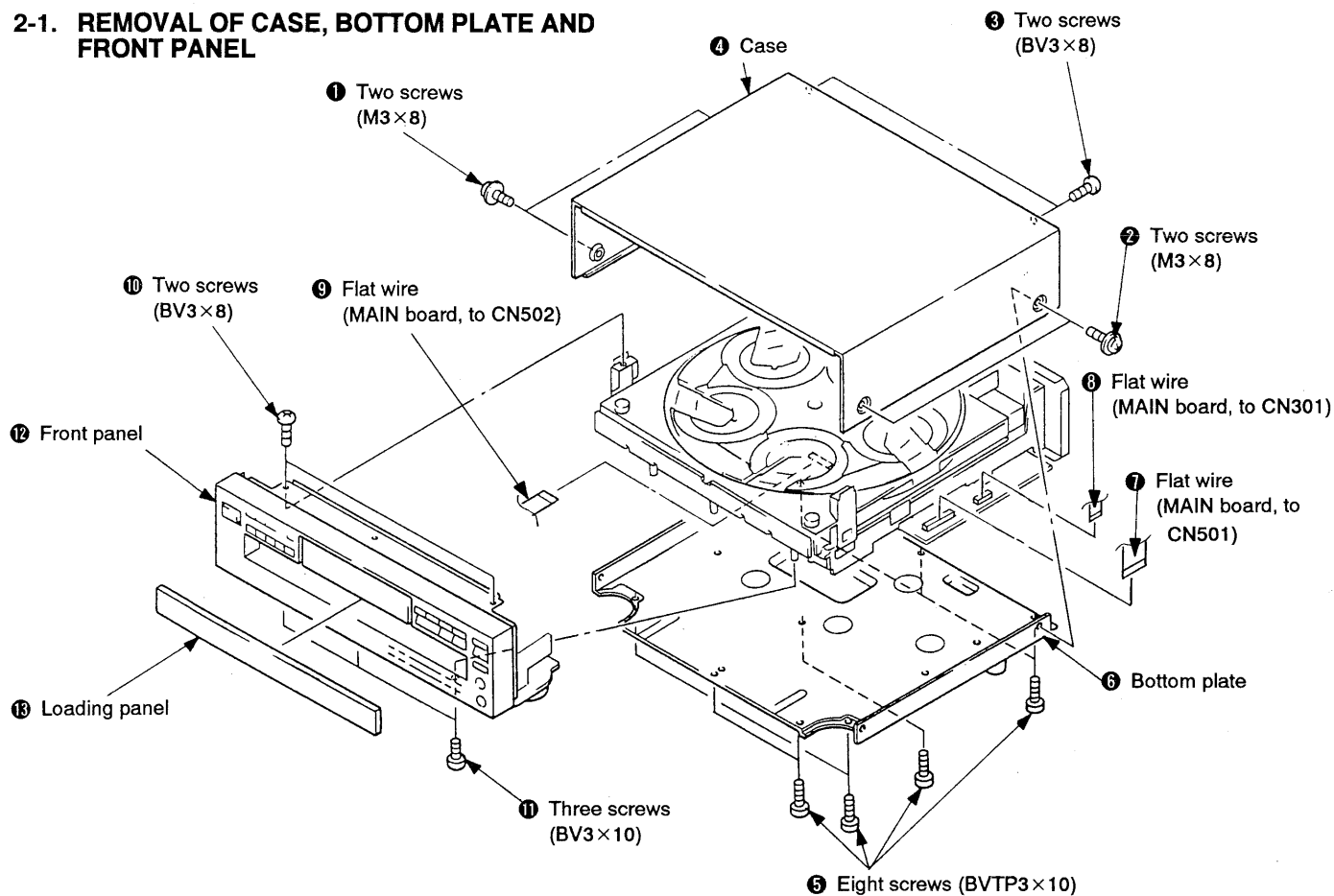


See the pages indicated in () for details.

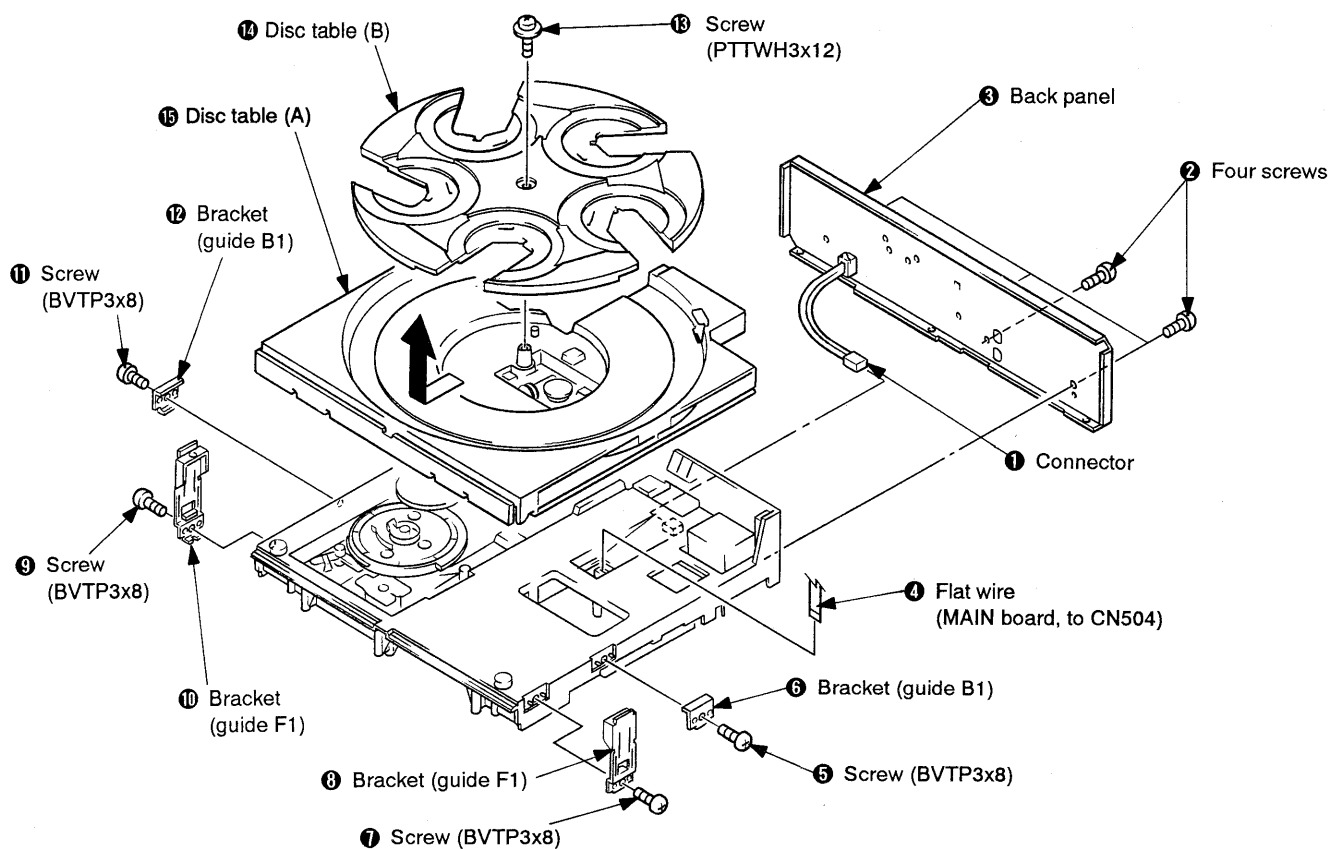
- 1 PLAY MODE buttons
 - CONTINUE button (8)
 - SHUFFLE button (15)
 - PROGRAM button (16)
- 2 DISC 1-5 buttons (8)
- 3 CHECK button (18)
- 4 >20 (over 20) button (10)
- 5 REPEAT button (20)
- 6 TIME button (9)
- 7 II (pause) button (8)
- 8 ► (play) button (8)
- 9 ◀◀◀►►► (AMS) buttons (10)
- 10 ◀ (stop) button (8)
- 11 DSP SELECT button (CDP-C535 only) (12)
- 12 MUSIC SCAN button (19)
- 13 DISC SKIP button (8)
- 14 Numeric buttons (10)
- 15 FILE button (25)
- 16 CLEAR button (16)
- 17 LEVEL FILE button (28)
- 18 ERASE button (25)
- 19 FADER button (14)
- 20 LINE OUT LEVEL +/- button (9)
- 21 DIRECT button (CDP-C535 only) (12)

SECTION 2 DISASSEMBLY

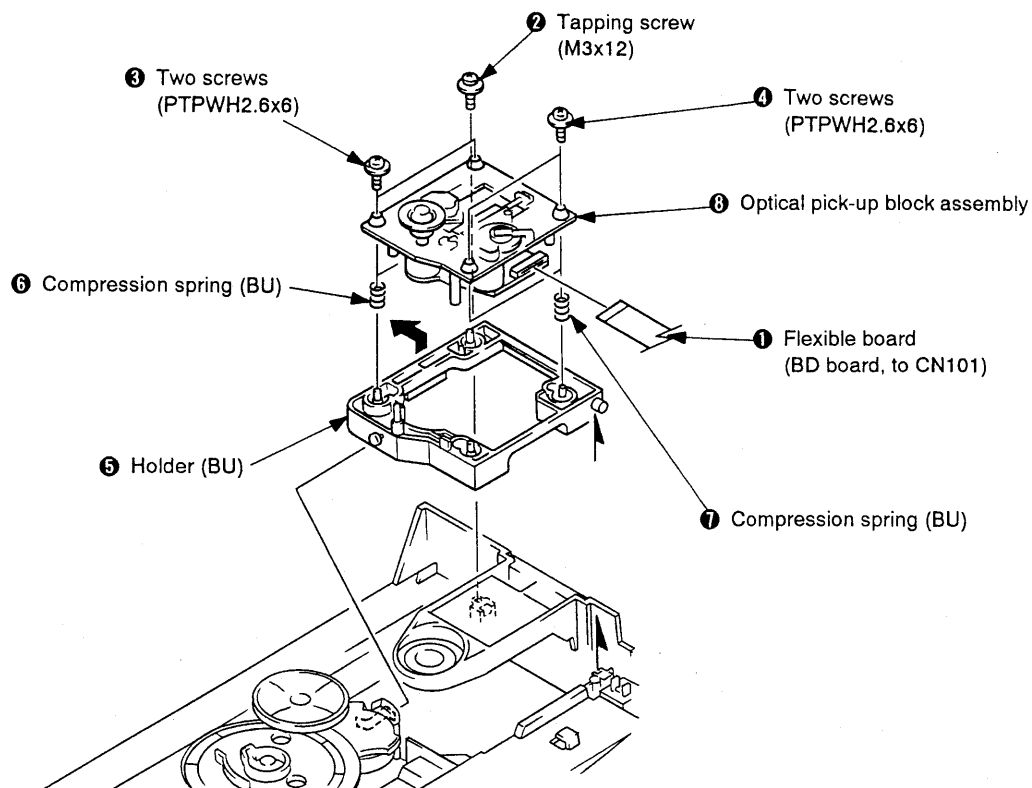
2-1. REMOVAL OF CASE, BOTTOM PLATE AND FRONT PANEL



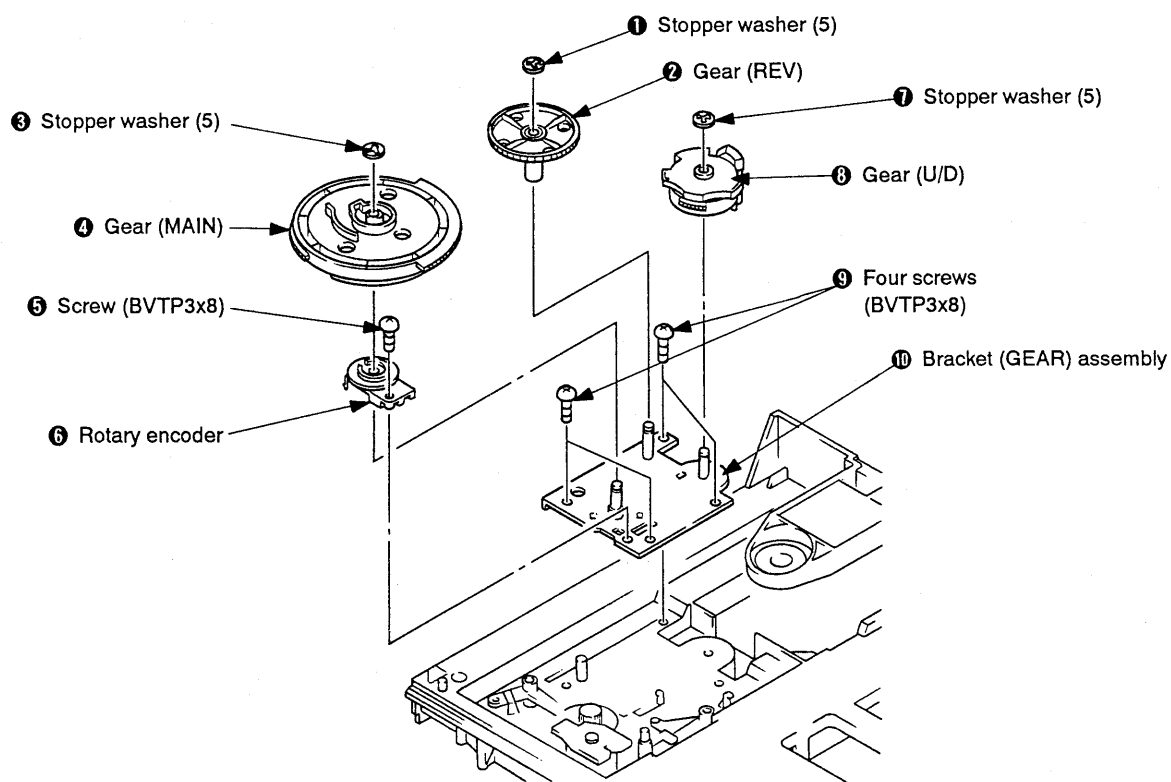
2-2. REMOVAL OF BACK PANEL AND DISC TABLE



2-3. REMOVAL OF OPTICAL PICK-UP BLOCK ASSEMBLY



2-4. REMOVAL OF BRACKET (GEAR) ASSEMBLY

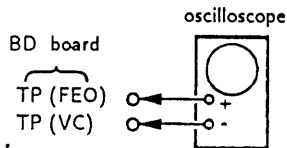


SECTION 3 ELECTRICAL BLOCK CHECKING

Note :

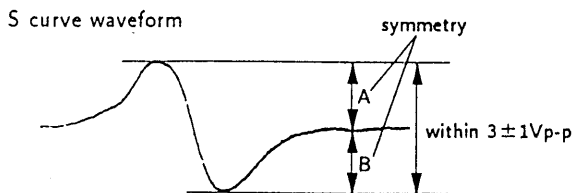
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than $10M\Omega$ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FE) on BD board.
2. Connect between test point TP (FE1) and TP (VC) by lead wire
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within $3 \pm 1V_{p-p}$.

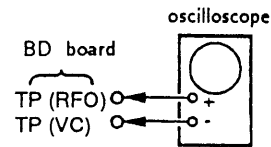


5. After check, remove the lead wire connected in step 2.

Note : • Try to mesure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.

- Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

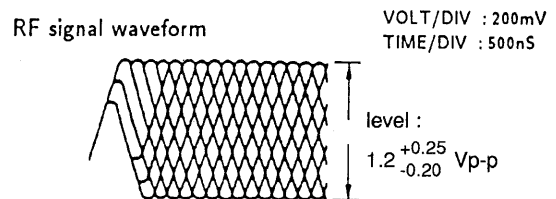


Procedure :

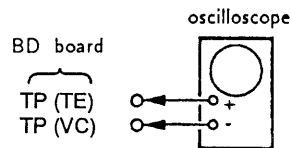
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

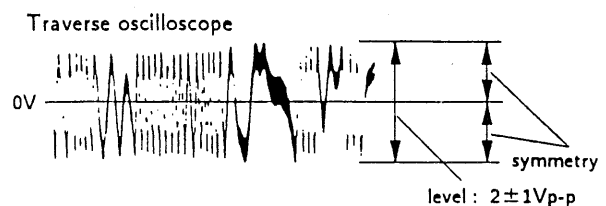


E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) on Main board to ground and TP (TE1) to TP (VC) on BD board with lead wire.
2. Connect oscilloscope to test point TP (TE) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

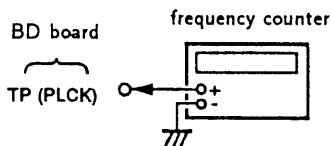


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

- 1. Connect frequency counter to test point (PLCK) with lead wire.



- 2. Turn Power switch on.
- 3. Confirm that reading on frequency counter is
- 4. 3218MHz.

Focus/Tracking Gain

This gain has a margin, so even if it is slightly off.
There is no problem.

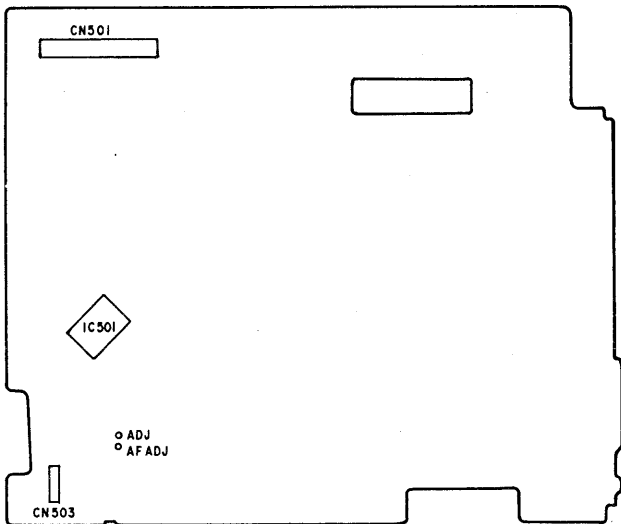
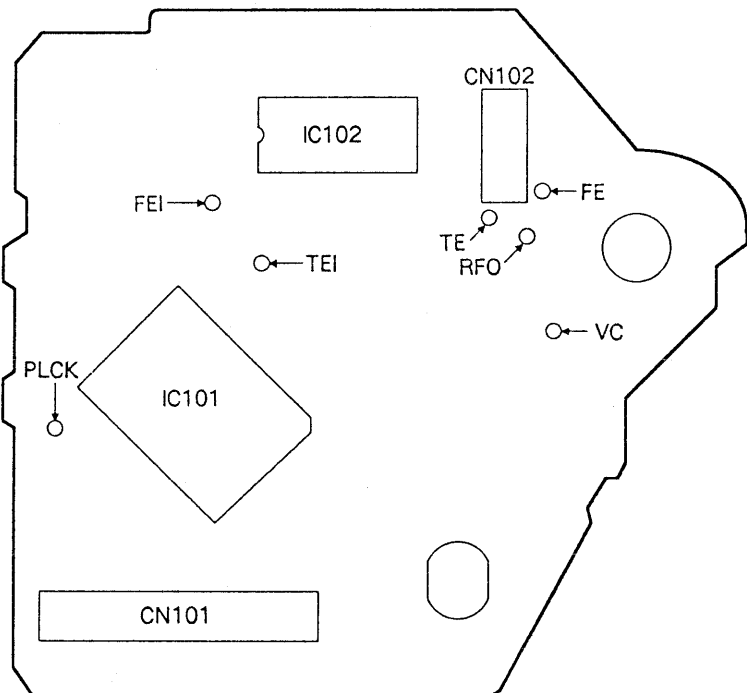
Therefore, do not perform, this adjustment.

Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Locations :

[BD BOARD] —Conductor Side —

[MAIN BOARD] —Component Side —



SECTION 4

IC PIN FUNCTIONS

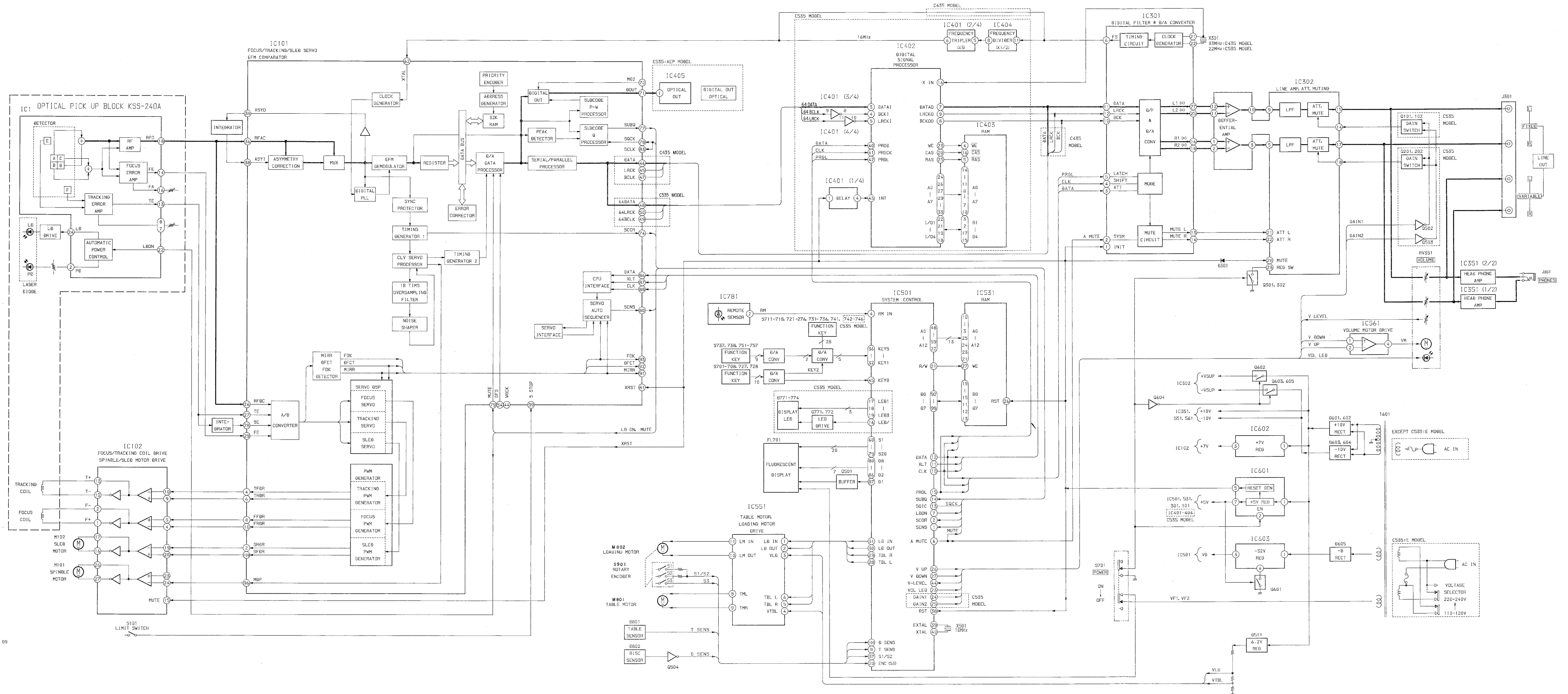
CXP82220-006Q (IC501) PIN FUNCTIONS

PIN No.	PIN NAME	I/O	FUNCTION
1	SENSE	I	SENSE signal input pin.
2	SCOR	I	Subcode Q data readout timing signal input pin.
3	AF ADJ	I	Test mode pin. Normally: "H"
4	RM IN	I	Remote control signal input pin.
5	ADJ	I	Test mode pin. Normally: "H"
6	A MUTE	O	Analog muting control signal output pin.
7	LDON	O	Optical pick-up laser diode control pin. ON: "H"
8	T.SENS	I	Slit sensor of disc table input pin.
9	DSPLT	O	Serial data latch signal output pin to Digital Signal processor.
10	CLK	O	Serial clock output pin to BD.
11	XLT	O	Serial data latch signal output pin.
12	DATA	O	Serial data output pin.
13	SQIC	O	Subcode Q data readout clock output pin.
14	SUBQ	I	Subcode Q data input pin.
15	PRGL	O	Latch signal output pin to digital filter IC.
16	LED/	O	LED drive pin. (C535)
17	LED1	O	} LED ON/OFF pin. (C535)
18	LED2	O	
19	LED3	O	
20	ENC (S3)	I	Loading encoder input pin. (S3)
21	R/W	O	Read/write timing output pin.
22	A12	O	S-RAM address control output pin.
23	VOLLED	O	Volume LED control pin.
24	GAIN 1	O	} Gain switch control pin. (C535)
25	GAIN 2	O	
26	VUP	O	} Volume motor drive pin.
27	VDOWN	O	
28	TBLL	O	} Table motor control pin.
29	TBLR	O	
30	LDOUT	O	} Loading motor control pin.
31	LDIN	O	
32 to 36	KEY1 to KEY5	I	Key input pin. (A/D)
37	S1/S2	I	Loading encoder input pin. (S1/S2)
38	RST	I	Reset signal input pin.
39	EXTAL	I	10MHz clock input pin.
40	XTAL	O	10MHz clock output pin.
41	Vss	—	GND
42	TX	—	} Not used.
43	TEX	—	
44	V-LEVEL	I	Volume level input pin.
45	KEY0	I	Key input pin. (A/D)

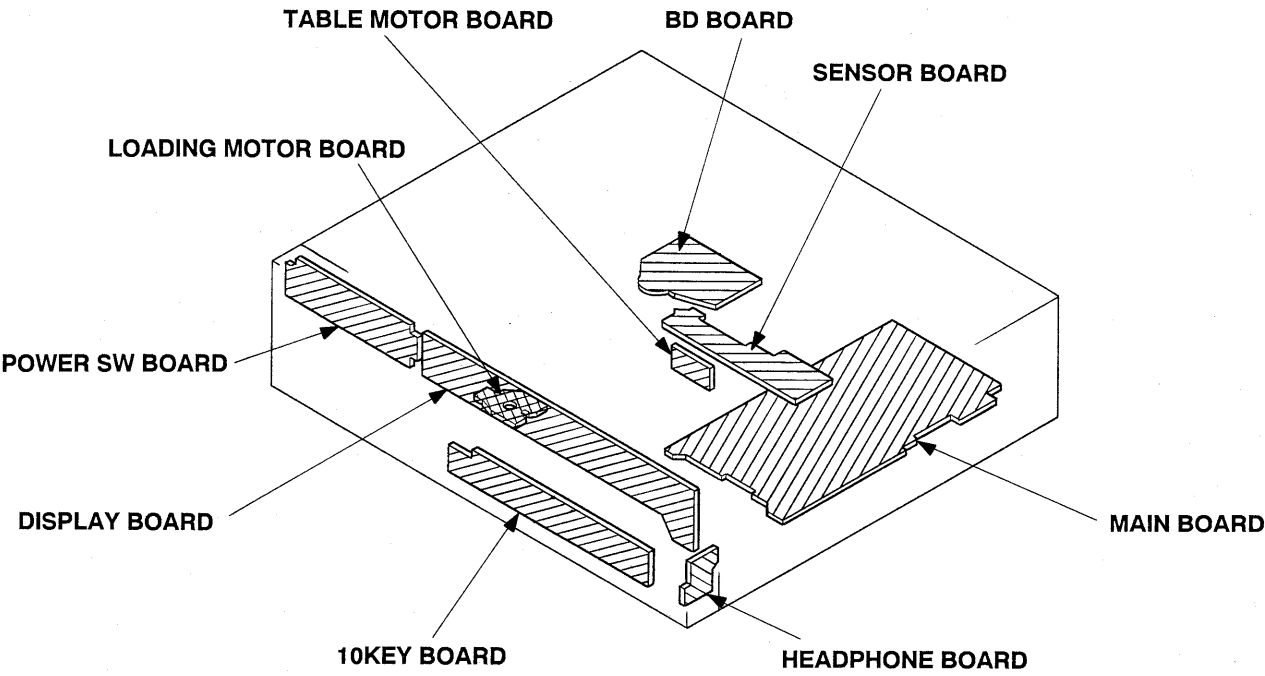
PIN No.	PIN NAME	I/O	FUNCTION
46	AVREF	I	Reference voltage input pin of A/D conversion.
47	AVss	—	GND
48 to 59	A0 to A11	O	S-RAM address control output pin.
60 to 79	S1 to S20	O	FL segment output pin.
80 to 87	G1 to G8	O	FL timing output pin.
88	VFDP	I	FL drive voltage input pin.
89	VDD	—	Power supply pin.
90	NC	—	Connected to VDD.
91	Vss	—	GND
92 to 99	D0 to D7	I/O	S-RAM data bus.
100	D SENS	I	Disc sensor input pin.

SECTION 5 DIAGRAMS

5-1. BLOCK DIAGRAM



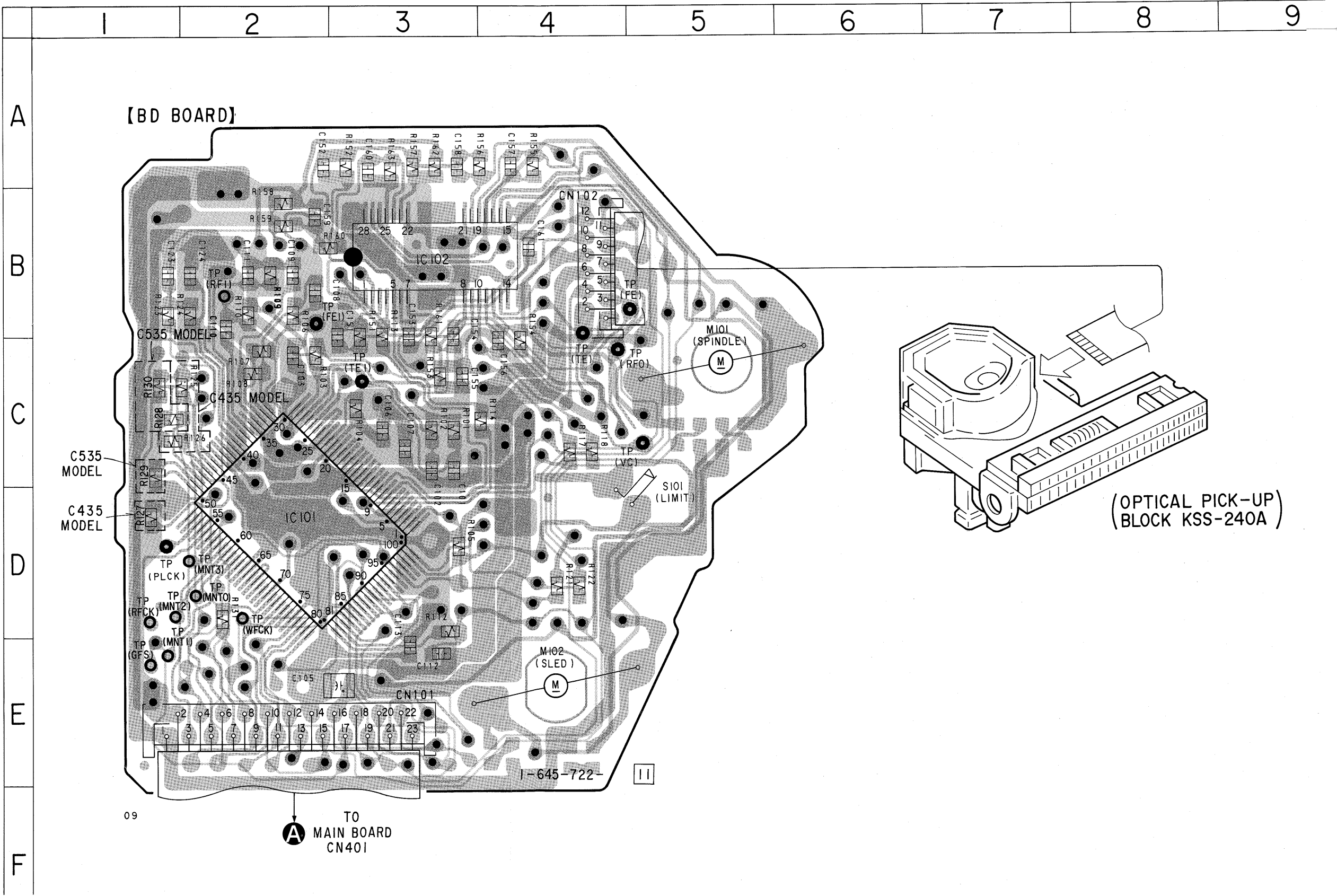
5-2. CIRCUIT BOARDS LOCATION



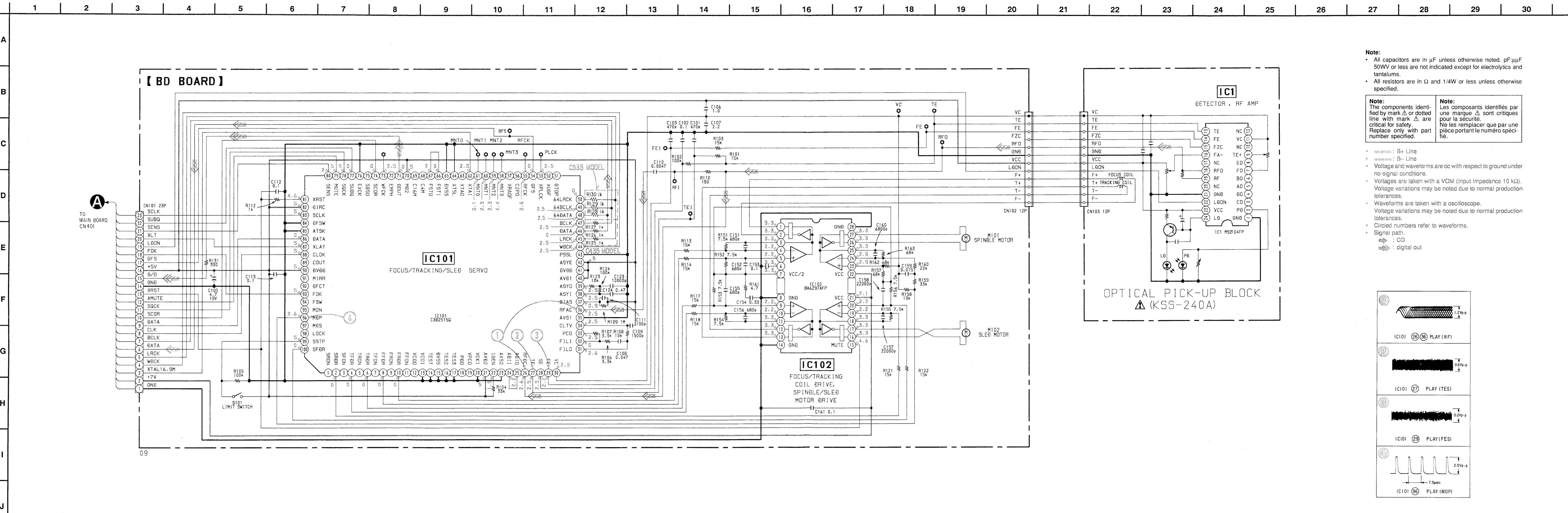
5-3. PRINTED WIRING BOARD — BD SECTION —
 •See page 11 for Circuit Boards Location and see page 30 for Semiconductor Lead Layouts.

• Semiconductor Location

Ref. No.	Location
IC101	D-2
IC102	B-3



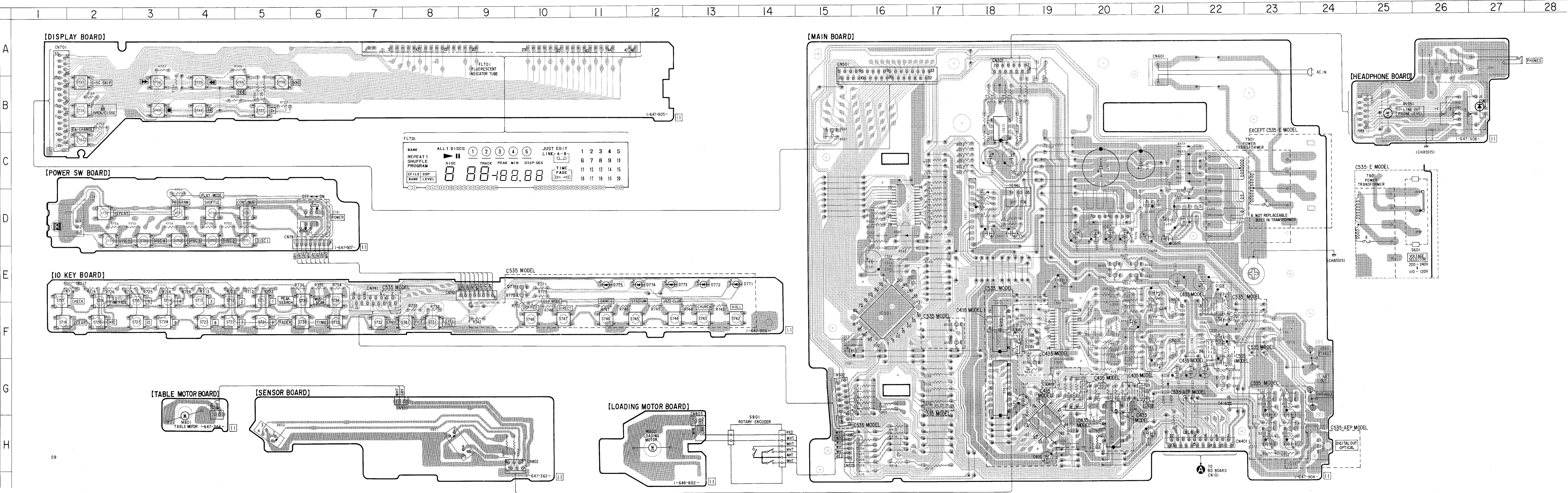
Note:
 • : parts extracted from the component side.
 • : Through hole.
 • : Pattern on the side which is seen.
 • : Pattern of the rear side.



5-5. PRINTED WIRING BOARDS — MAIN SECTION —
•See page 11 for Circuit Boards Location and see page 30 for Semiconductor Lead Layouts.

• Semiconductor Location

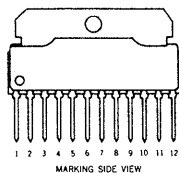
Ref. No.	Location	Ref. No.	Location
D301	G-21	Q302	G-22
D531	D-16	Q501	C-15
D551	D-18	Q502	F-17
D601	C-21	Q503	F-17
D602	C-21	Q504	G-19
D603	C-21	Q601	D-21
D604	C-21	Q602	E-21
D605	D-21	Q603	E-21
D606	D-21	Q604	E-20
D771	E-13	Q605	E-20
D772	E-13	Q771	E-9
D773	E-12	Q772	E-9
D774	E-12		
D775	E-11		
D801	H-8		
D802	H-5		
IC301	F-19		
IC302	F-22		
IC351	B-18		
IC401	H-20		
IC402	H-19		
IC403	G-18		
IC404	F-18		
IC405	H-24		
IC501	F-16		
IC531	B-18		
IC551	D-18		
IC561	D-18		
IC601	D-20		
IC602	D-21		
IC603	D-22		
IC781	D-1		
Q101	G-23		
Q102	H-23		
Q201	G-23		
Q202	H-23		
Q301	G-22		



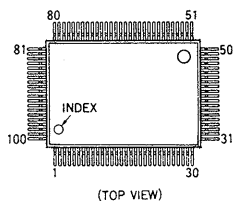
Note:
• : parts extracted from the component side.
• : Pattern on the side which is seen.

5-7. SEMICONDUCTOR LEAD LAYOUTS

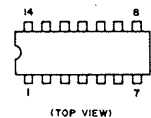
BA6191



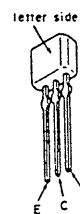
CXP82220-004Q



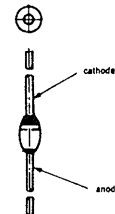
MC74HC74N
SN74HCU04N



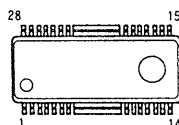
2SA1175-HFE
DTC144ES



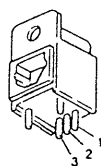
RD6.2ES-B1
RD9.1ES-B2



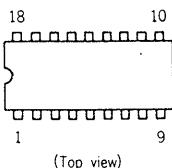
BA6297AFP



GP1F32T



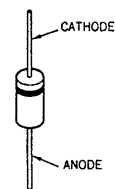
MS51464-10NC



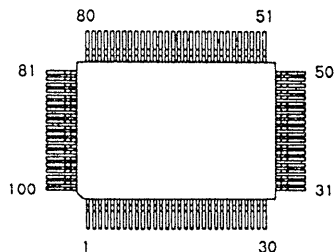
2SC2603-EF
DTA114ES
DTA144ES
DTC114ES



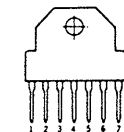
1N4148M



CXD2515Q



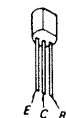
LA5602



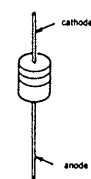
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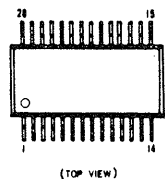
2SC2878-AB



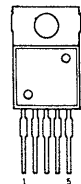
11ES2



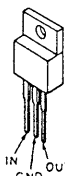
CXD2564AM
CXD2565M



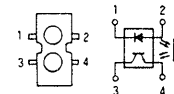
LA6500-FA



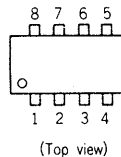
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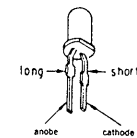
GP2S28



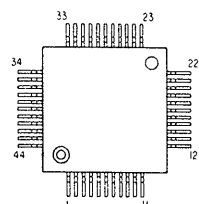
NJM4565D



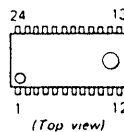
SEL2810A-C



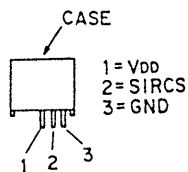
CXD2701Q



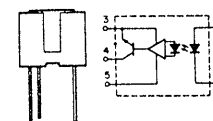
LA9216



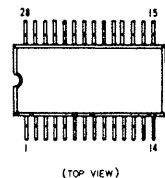
SBX1610-59



RPI-1391

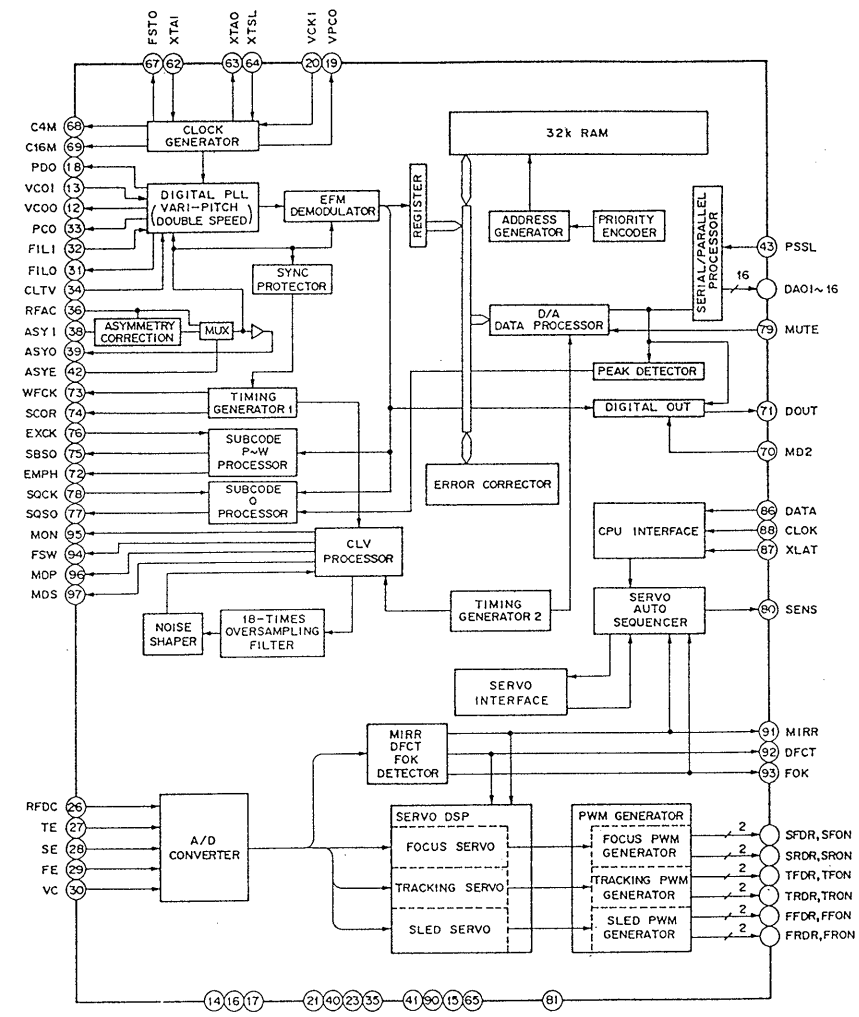


LH5160N-10L

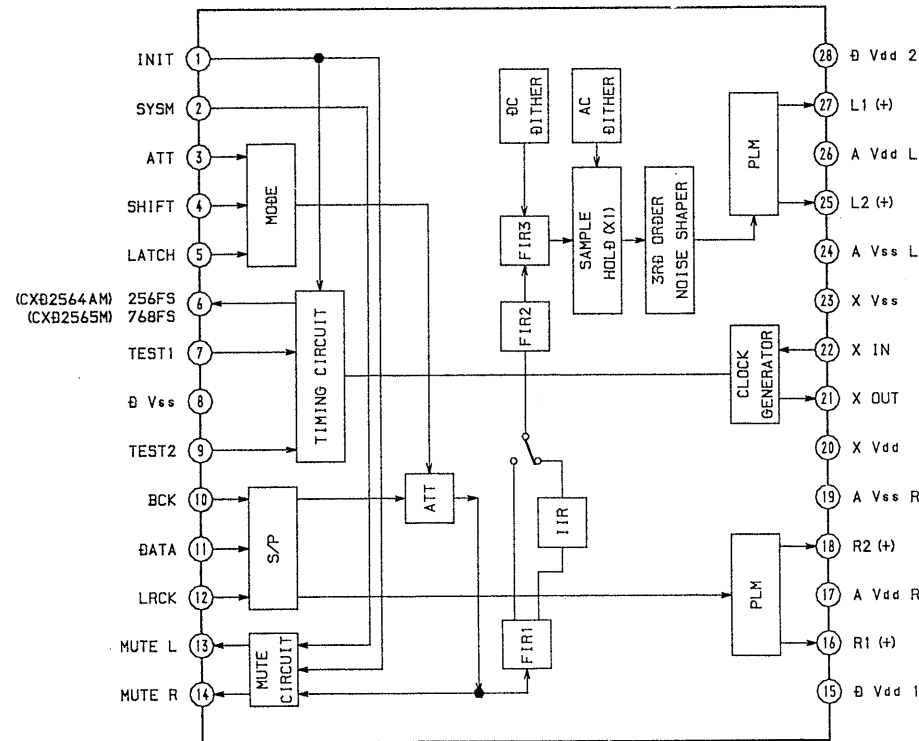


5-8. IC BLOCK DIAGRAM

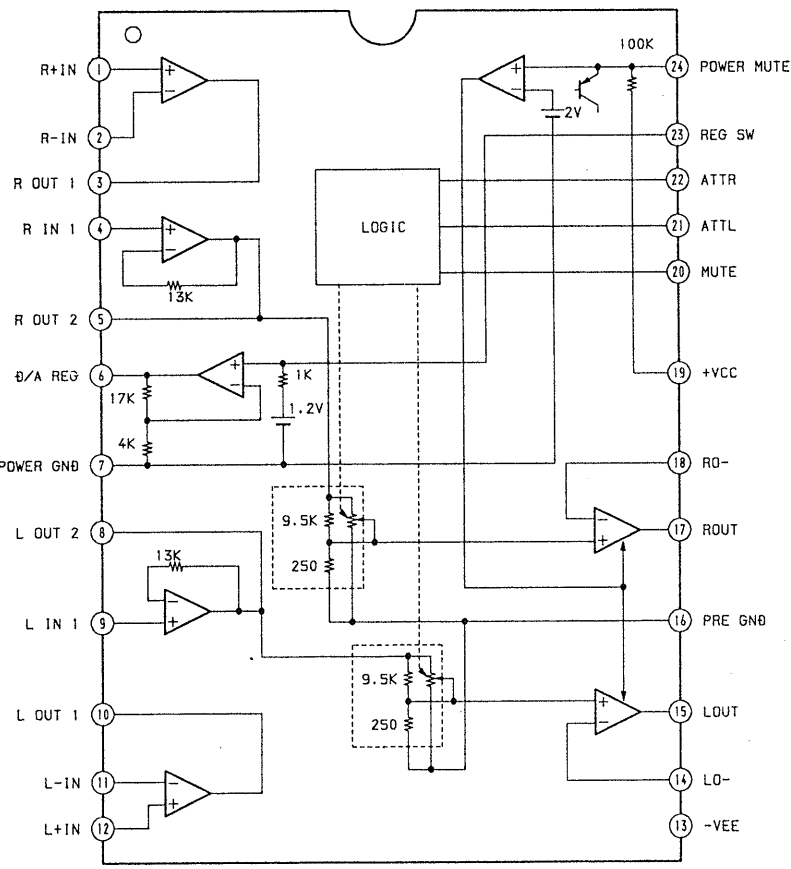
IC101 CXD2515Q



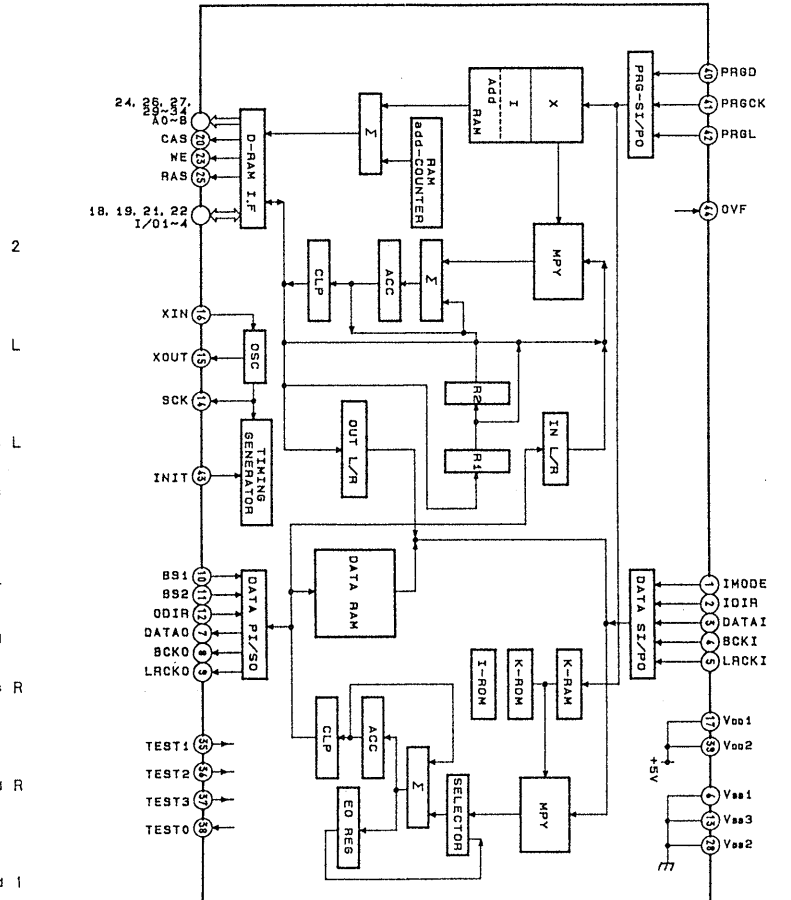
IC301 CXD2564AM/CXD2565M



IC302 LA9216



IC402 CXD2701Q



SECTION 6

EXPLODED VIEWS

- -XX, -X mean standardized parts, so they may have some difference from the original one.

- KNOB, BALANCE (WHITE) . . . (RED)

Parts color

Cabinet's color

- CND: Canadian model
- AUS: Australian model

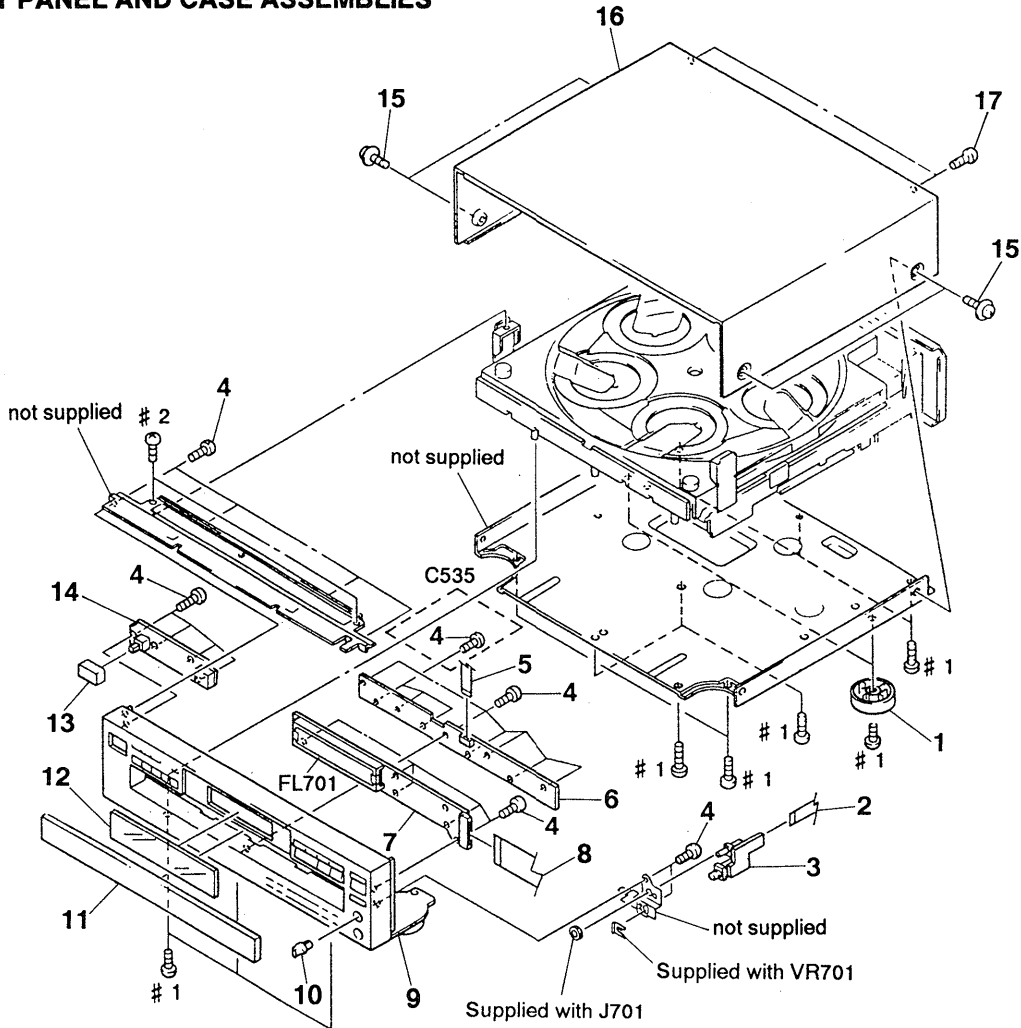
- The mechanical parts with no reference number in the exploded views are not supplied.

- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

Les composants identifiés par une
marque  sont critiques pour la
sécurité.
Ne les remplacer que par une pièce
portant le numéro spécifié.

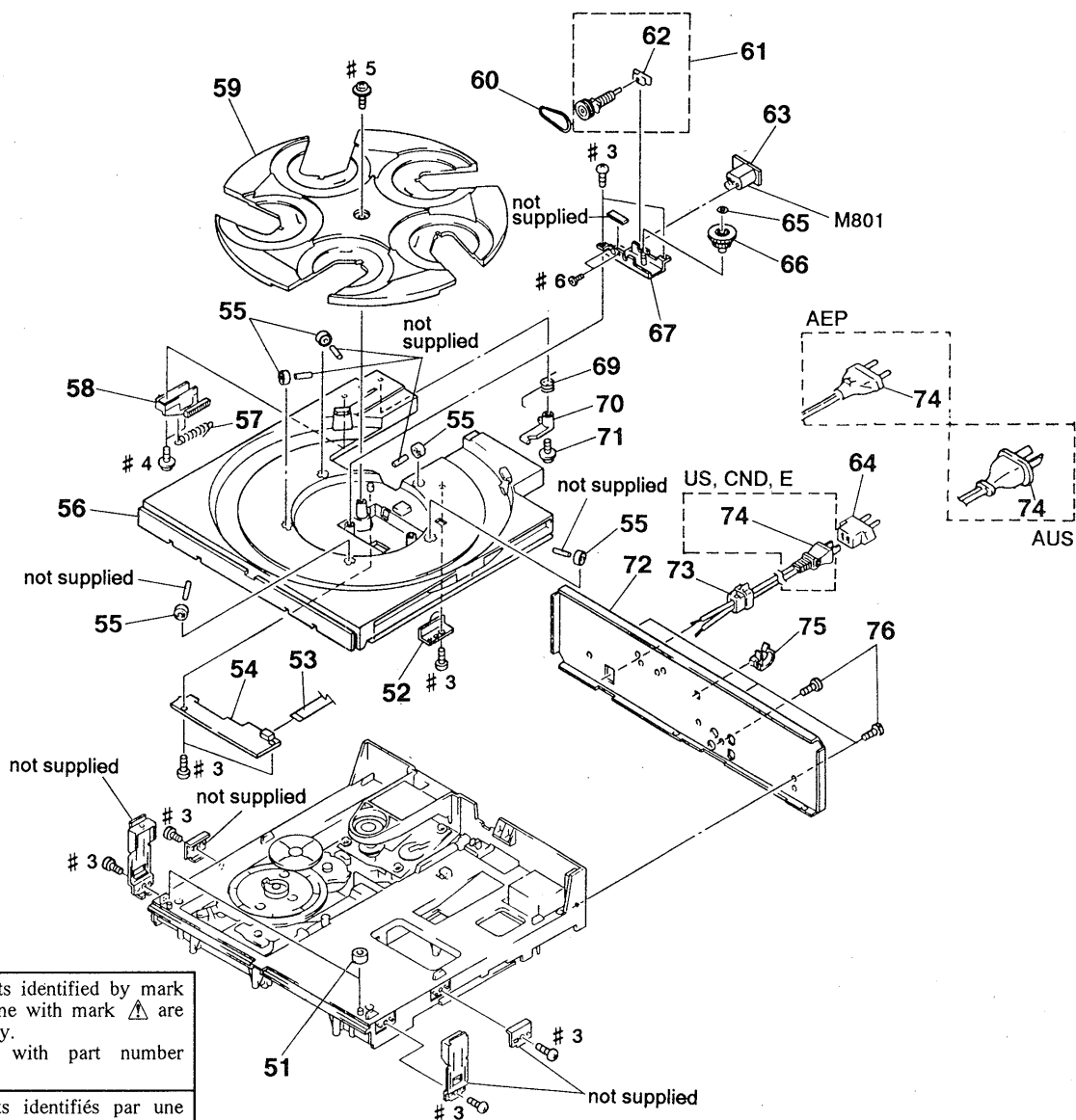
6-1. FRONT PANEL AND CASE ASSEMBLIES



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
1	X-4942-197-1	FOOT ASSY (BLACK) (US, CND)	
1	X-4942-198-1	FOOT ASSY (SILVER) (AUS, AEP, E)	
2	1-751-122-11	WIRE (FLAT TYPE) (13 CORE)	
* 3	1-647-908-11	HEADPHONE BOARD	
4	4-951-620-01	SCREW (2. 6X8), +BVTP	
5	1-751-120-11	WIRE (FLAT TYPE) (16 CORE) (C535)	
5	1-751-121-11	WIRE (FLAT TYPE) (12 CORE) (C435)	
* 6	A-4649-668-A	10 KEY BOARD, COMPLETE (C435)	
* 6	A-4649-675-A	10 KEY BOARD, COMPLETE (C535)	
* 7	1-647-905-11	DISPLAY BOARD	
8	1-751-119-11	WIRE (FLAT TYPE) (33 CORE)	
9	X-4943-502-1	PANEL ASSY, FRONT (C535:US, CND)	

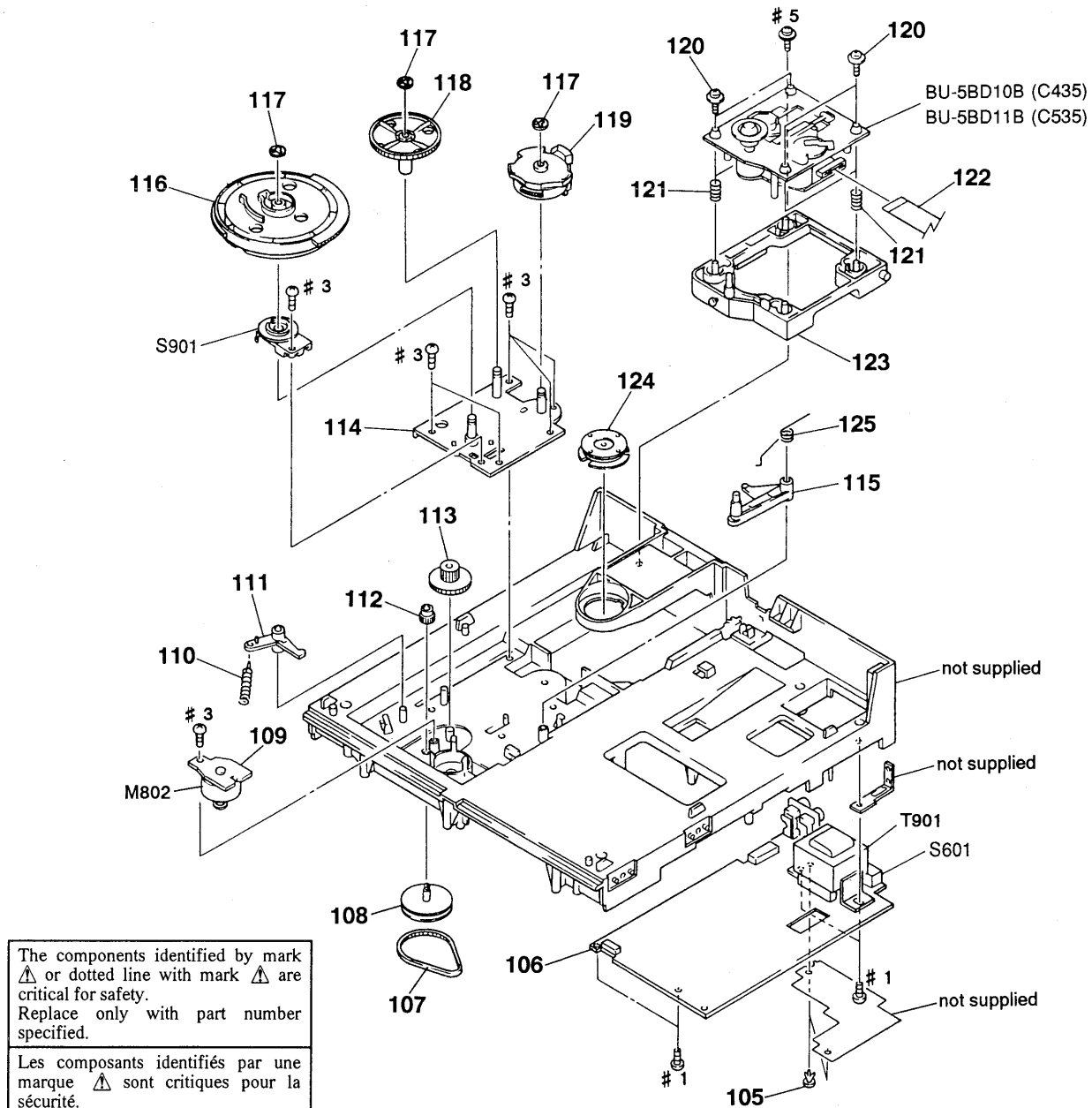
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
9	X-4943-503-1	PANEL ASSY, FRONT (AEP, E)	
9	X-4943-504-1	PANEL ASSY, FRONT (C435:US, CND)	
9	X-4943-505-1	PANEL ASSY, FRONT (AUS)	
10	A-4660-389-A	KNOB (HP) ASSY	
11	4-957-557-01	PANEL, LOADING	
12	4-957-548-01	PLATE (FL), INDICATION	
13	4-922-921-01	BUTTON (POWER)	
* 14	1-647-907-11	POWER SW BOARD	
15	3-704-366-01	SCREW (CASE) (M3X8)	
* 16	4-944-153-01	CASE	
17	3-703-685-21	SCREW (+BV 3X8)	
FL701	1-517-164-11	INDICATOR TUBE, FLUORESCENT	

6-2. BACK PANEL AND DISC TABLE ASSEMBLIES



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
* 51	4-951-619-01	CUSHION (A)		69	4-957-293-01	SPRING (RACK RELEASE)	
52	X-4943-480-1	BRACKET (ROLLER D) ASSY		70	4-957-291-01	LEVER (RACK RELEASE)	
53	1-751-052-11	WIRE (FLAT TYPE) (6 CORE)		71	4-957-868-01	SCREW (+PTPH 2.6X20)	
* 54	1-647-362-11	SENSOR BOARD		* 72	4-958-222-01	PANEL, BACK (C535:US, CND)	
55	X-4924-457-1	ROLLER ASSY		* 72	4-958-222-12	PANEL, BACK (AEP)	
* 56	4-957-298-01	TABLE (A), DISC		* 72	4-958-222-21	PANEL, BACK (E)	
57	4-957-294-01	SPRING (D.T), TENSION		* 72	4-958-222-41	PANEL, BACK (C435:US, CND)	
58	4-957-292-01	SLIDER (RACK)		* 72	4-958-222-51	PANEL, BACK (AUS)	
59	4-957-299-01	TABLE (B), DISC		* 73	3-703-244-00	BUSHING (2104), CORD (EXCEPT FOR E)	
60	4-957-304-01	BELT (RM)		* 73	3-703-571-11	BUSHING (S) (4516), CORD (E)	
61	X-4943-479-1	GEAR (ROTARY A) ASSY		74	1-575-651-21	CORD, POWER (AEP)	
62	4-957-278-01	BEARING (ROTARY A)		74	1-590-836-11	CORD, POWER (US, CND)	
63	1-647-364-11	TABLE MOTOR BOARD		74	1-696-027-11	CORD, POWER (E)	
64	1-569-007-11	ADAPTER, CONVERSION 2P (E)		74	1-696-845-11	CORD, POWER (AUS)	
65	3-325-697-01	WASHER		* 75	4-949-235-01	HOO	
66	4-957-284-01	GEAR (LOTARY B)		76	3-704-515-21	SCREW (BV/RING)	
67	X-4943-477-1	BRACKET (RM) ASSY		M801	A-4660-322-A	MOTOR ASSY, ROTARY (TABLE)	

6-3. CHASSIS ASSEMBLY

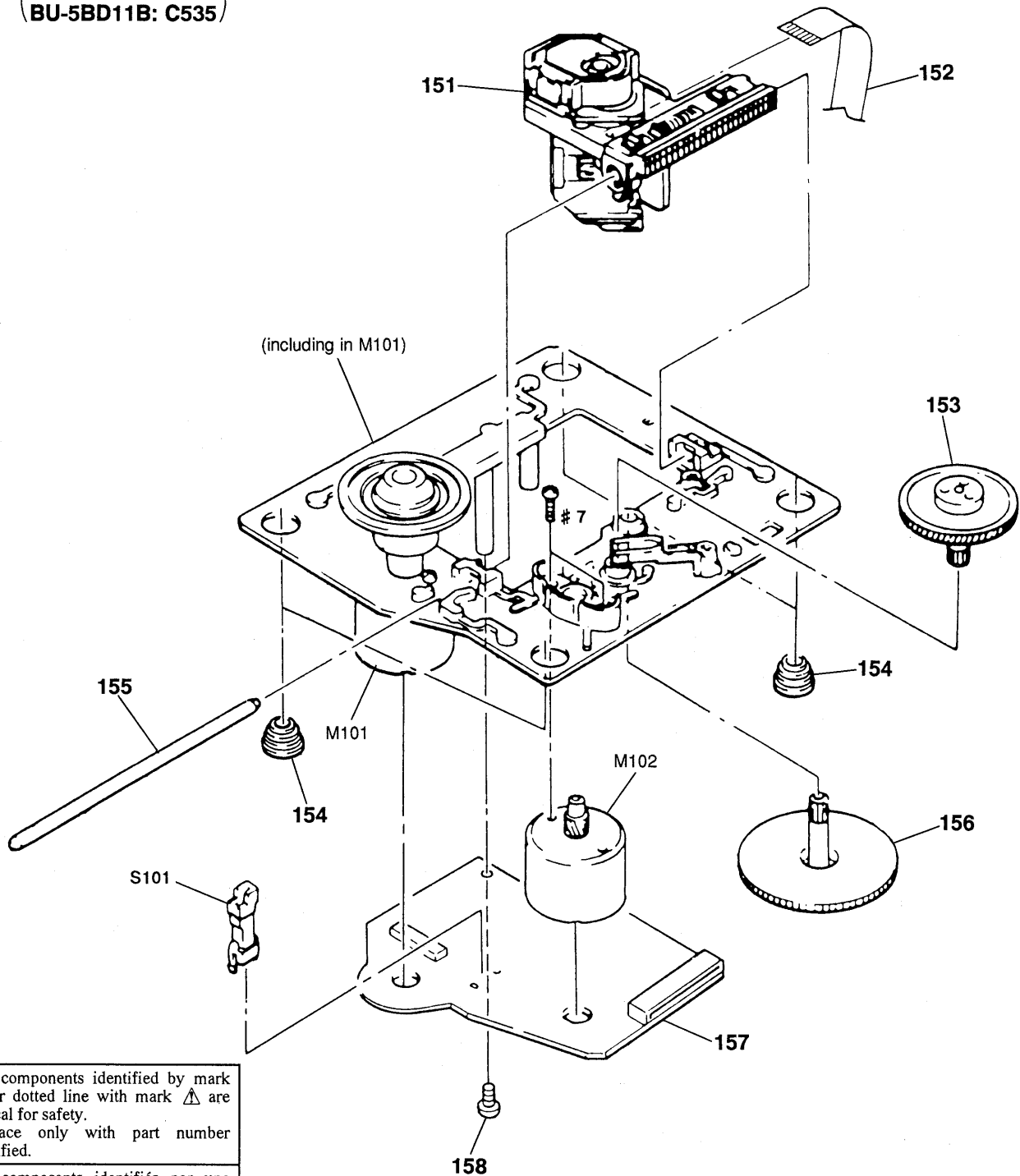


The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
105	3-531-576-11	RIVET		117	4-957-283-01	WASHER (5), STOPPER	
* 106	A-4649-669-A	MAIN BOARD, COMPLETE (C435:US, CND)		118	4-957-287-01	GEAR (REV)	
* 106	A-4649-672-A	MAIN BOARD, COMPLETE (AUS)		119	4-957-286-04	GEAR (U/D)	
* 106	A-4649-677-A	MAIN BOARD, COMPLETE (C535:US, CND)		120	4-933-134-01	SCREW (+PTPH M2.6X6)	
* 106	A-4649-678-A	MAIN BOARD, COMPLETE (AEP)		121	4-948-503-01	SPRING (BU), COMPRESSION	
* 106	A-4649-679-A	MAIN BOARD, COMPLETE (E)		122	1-751-123-11	WIRE (FLAT TYPE) (23 CORE)	
107	4-944-490-01	BELT (TIMING)		* 123	4-957-289-01	HOLDER (BU)	
108	X-4941-529-1	PULLEY ASSY		* 124	1-452-538-11	MAGNET	
109	1-647-363-11	LOADING MOTOR BOARD		125	4-957-281-01	SPRING (LOCK LEVER)	
110	4-924-412-01	SPRING (B), TENSION		M802	A-4604-834-A	MOTOR ASSY, LOADING	
111	4-957-285-01	LEVER, SET		 S601	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (C535:E)	
112	4-934-375-01	GEAR (LOADING B)		S901	1-466-996-11	ENCODER, ROTARY	
113	4-957-303-01	GEAR (LOADING C)		 T901	1-423-553-11	TRANSFORMER, POWER (US, CND)	
114	X-4943-478-1	BRACKET (GEAR) ASSY		 T901	1-423-554-11	TRANSFORMER, POWER (AUS, AEP)	
115	4-957-279-01	LEVER, LOCK		 T901	1-423-555-11	TRANSFORMER, POWER (E)	
116	4-957-288-01	GEAR (MAIN)					

6-4. OPTICAL PICK-UP BLOCK ASSEMBLY
(BU-5BD10B: C435)
(BU-5BD11B: C535)



The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description
$\triangle$ 151	8-848-144-11	DEVICE, OPTICAL KSS-240A
152	1-575-001-11	WIRE, FLAT TYPE (12 CORE)
153	4-917-567-01	GEAR (M)
154	4-951-940-01	INSULATOR (BU)
155	4-917-565-01	SHAFT, SLED
156	4-917-564-01	GEAR (P), FLATNESS

Ref. No.	Part No.	Description
* 157	A-4649-432-A	BD BOARD, COMPLETE (C435)
* 157	A-4649-433-A	BD BOARD, COMPLETE (C535)
158	4-951-620-01	SCREW (2.6X8), +BVTP
M101	X-4917-523-3	BASE (OUTSERT) ASSY (SPINDLE)
M102	X-4917-504-1	MOTOR ASSY (SLED)
S101	1-572-085-11	SWITCH, LEAF (LIMIT)

SECTION 7 ELECTRICAL PARTS LIST

10 KEY

NOTE:

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

• Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

• -XX, -X mean standardized parts, so they may have some difference from the original one.

RESISTORS

All resistors are in ohms

METAL: Metal-film resistor

METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

• Color Indication of Appearance Parts Example:

KNOB, BALANCE (WHITE) ... (RED)

↑
Parts color

↑
Cabinet's color

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SEMICONDUCTORS

In each case, u: μ , for example:

uA...: μ A..., uPA...: μ PA...,

uPB...: μ PB..., uPC...: μ PC...,

uPD...: μ PD...

CAPACITORS

uF: μ F

COILS

uH: μ H

• Hardware (# mark) list is given in the last of this parts list.

• AUS: Australian model

• CND: Canadian model

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
*	A-4649-668-A	10 KEY BOARD, COMPLETE (C435) *****		R745	1-249-423-11	CARBON 3.3K 5% 1/4W F (C535)	
*	A-4649-675-A	10 KEY BOARD, COMPLETE (C535) *****		R746	1-249-426-11	CARBON 5.6K 5% 1/4W (C535)	
		< CONNECTOR >		R747	1-247-856-00	CARBON 11K 5% 1/4W (C535)	
CN741	1-750-453-11	CONNECTOR, FFC/FPC 12P (C435)		R748	1-249-435-11	CARBON 33K 5% 1/4W (C535)	
CN741	1-750-457-11	CONNECTOR, FFC/FPC 16P (C535)		R771	1-249-409-11	CARBON 220 5% 1/4W F (C535)	
		< DIODE >		R772	1-249-421-11	CARBON 2.2K 5% 1/4W F (C535)	
D771	8-719-301-52	LED SEL2810A-C (C535)		R773	1-249-409-11	CARBON 220 5% 1/4W F (C535)	
D772	8-719-301-52	LED SEL2810A-C (C535)				< SWITCH >	
D773	8-719-301-52	LED SEL2810A-C (C535)		S711	1-554-303-21	SWITCH, TACTILE (1)	
D774	8-719-301-52	LED SEL2810A-C (C535)		S712	1-554-303-21	SWITCH, TACTILE (2)	
D775	8-719-301-52	LED SEL2810A-C (C535)		S713	1-554-303-21	SWITCH, TACTILE (3)	
		< TRANSISTOR >		S714	1-554-303-21	SWITCH, TACTILE (4)	
Q771	8-729-900-61	TRANSISTOR DTA114ES (C535)		S715	1-554-303-21	SWITCH, TACTILE (5)	
Q772	8-729-900-61	TRANSISTOR DTA114ES (C535)		S716	1-554-303-21	SWITCH, TACTILE (EDIT/TIME FADE)	
		< RESISTOR >		S717	1-554-303-21	SWITCH, TACTILE (CHECK)	
R712	1-249-418-11	CARBON 1.2K 5% 1/4W F		S718	1-554-303-21	SWITCH, TACTILE (CLEAR)	
R713	1-247-836-11	CARBON 1.6K 5% 1/4W		S721	1-554-303-21	SWITCH, TACTILE (6)	
R714	1-249-421-11	CARBON 2.2K 5% 1/4W F		S722	1-554-303-21	SWITCH, TACTILE (7)	
R715	1-249-423-11	CARBON 3.3K 5% 1/4W F		S723	1-554-303-21	SWITCH, TACTILE (8)	
R716	1-249-426-11	CARBON 5.6K 5% 1/4W		S724	1-554-303-21	SWITCH, TACTILE (9)	
R717	1-247-856-00	CARBON 11K 5% 1/4W		S725	1-554-303-21	SWITCH, TACTILE (10)	
R718	1-249-435-11	CARBON 33K 5% 1/4W		S726	1-554-303-21	SWITCH, TACTILE (>10)	
R722	1-249-418-11	CARBON 1.2K 5% 1/4W F		S731	1-554-303-21	SWITCH, TACTILE (LEVEL FILE)	
R723	1-247-836-11	CARBON 1.6K 5% 1/4W		S732	1-554-303-21	SWITCH, TACTILE (ERASE)	
R724	1-249-421-11	CARBON 2.2K 5% 1/4W F		S733	1-554-303-21	SWITCH, TACTILE (TIME)	
R725	1-249-423-11	CARBON 3.3K 5% 1/4W F		S734	1-554-303-21	SWITCH, TACTILE (MUSIC SCAN)	
R726	1-249-426-11	CARBON 5.6K 5% 1/4W		S735	1-554-303-21	SWITCH, TACTILE (PEAK SEARCH)	
R732	1-249-418-11	CARBON 1.2K 5% 1/4W F		S736	1-554-303-21	SWITCH, TACTILE (FADER)	
R733	1-247-836-11	CARBON 1.6K 5% 1/4W		S741	1-554-303-21	SWITCH, TACTILE (FILE)	
R734	1-249-421-11	CARBON 2.2K 5% 1/4W F		S742	1-554-303-21	SWITCH, TACTILE (HALL) (C535)	
R735	1-249-423-11	CARBON 3.3K 5% 1/4W F		S743	1-554-303-21	SWITCH, TACTILE (CHURCH) (C535)	
R736	1-249-426-11	CARBON 5.6K 5% 1/4W		S744	1-554-303-21	SWITCH, TACTILE (JAZZ CLUB) (C535)	
R742	1-249-418-11	CARBON 1.2K 5% 1/4W F (C535)		S745	1-554-303-21	SWITCH, TACTILE (STADIUM) (C535)	
R743	1-247-836-11	CARBON 1.6K 5% 1/4W (C535)		S746	1-554-303-21	SWITCH, TACTILE (DANCE) (C535)	
R744	1-249-421-11	CARBON 2.2K 5% 1/4W F (C535)		S747	1-554-303-21	SWITCH, TACTILE (DIRECT DSP MODE) (C535)	
				S748	1-554-303-21	SWITCH, TACTILE (DSP FILE DSP MODE) (C535)	

BD DISPLAY

Ref.No.	Part No.	Description	Remark
*	A-4649-432-A	BD BOARD, COMPLETE (C435) *****	
*	A-4649-433-A	BD BOARD, COMPLETE (C535) *****	
		< CAPACITOR >	
C101	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
C102	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
C103	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
C105	1-135-155-21	TANTALUM CHIP 4.7uF 10% 16V	
C106	1-164-346-11	CERAMIC CHIP 1uF 16V	
C107	1-164-505-11	CERAMIC CHIP 2.2uF 16V	
C108	1-163-035-00	CERAMIC CHIP 0.047uF 50V	
C109	1-163-011-11	CERAMIC CHIP 0.0015uF 10% 50V	
C110	1-163-017-00	CERAMIC CHIP 0.0047uF 5% 50V	
C111	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C112	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
C113	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
C123	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C124	1-164-005-11	CERAMIC CHIP 0.47uF 25V	
C151	1-163-007-11	CERAMIC CHIP 680PF 10% 50V	
C152	1-163-007-11	CERAMIC CHIP 680PF 10% 50V	
C153	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
C154	1-164-336-11	CERAMIC CHIP 0.33uF 25V	
C155	1-163-007-11	CERAMIC CHIP 680PF 10% 50V	
C156	1-163-007-11	CERAMIC CHIP 680PF 10% 50V	
C157	1-163-033-00	CERAMIC CHIP 0.022uF 50V	
C158	1-163-033-00	CERAMIC CHIP 0.022uF 50V	
C159	1-163-023-00	CERAMIC CHIP 0.015uF 5% 50V	
C160	1-163-019-00	CERAMIC CHIP 0.0068uF 10% 50V	
C161	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
		< CONNECTOR >	
* CN101	1-568-865-11	SOCKET, CONNECTOR 23P	
CN102	1-568-795-11	SOCKET, CONNECTOR 12P	
		< IC >	
IC101	8-752-351-94	IC CXD2515Q	
IC102	8-759-071-79	IC BA6297AFP	
		< MOTOR >	
M101	X-4917-523-3	BASE (OUTSERT) ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
		< RESISTOR >	
R101	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R102	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R103	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R104	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R105	1-216-097-00	METAL CHIP 100K 5% 1/10W	

Ref.No.	Part No.	Description	Remark
R106	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R107	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R108	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R109	1-216-121-00	METAL CHIP 1M 5% 1/10W	
R110	1-216-025-00	METAL CHIP 100 5% 1/10W	
R112	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R113	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R114	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R117	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R118	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R121	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R122	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R123	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R124	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R125	1-216-049-00	METAL CHIP 1K 5% 1/10W (C435)	
R126	1-216-049-00	METAL CHIP 1K 5% 1/10W (C435)	
R127	1-216-049-00	METAL CHIP 1K 5% 1/10W (C435)	
R128	1-216-049-00	METAL CHIP 1K 5% 1/10W (C535)	
R129	1-216-049-00	METAL CHIP 1K 5% 1/10W (C535)	
R130	1-216-049-00	METAL CHIP 1K 5% 1/10W (C535)	
R131	1-216-037-00	METAL CHIP 330 5% 1/10W	
R151	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
R152	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
R153	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
R154	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
R155	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
R156	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
R157	1-216-093-00	METAL CHIP 68K 5% 1/10W	
R158	1-216-076-00	METAL CHIP 13K 5% 1/10W	
R159	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R160	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R161	1-216-308-00	METAL CHIP 4.7 5% 1/10W	
R162	1-216-093-00	METAL CHIP 68K 5% 1/10W	
R163	1-216-093-00	METAL CHIP 68K 5% 1/10W	
		< SWITCH >	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	

*	1-647-905-11	DISPLAY BOARD *****	
		< CONNECTOR >	
CN701	1-750-474-11	CONNECTOR, FFC/FPC 33P	
		< INDICATOR >	
FL701	1-517-164-11	INDICATOR TUBE, FLUORESCENT	

DISPLAY

HEADPHONE

LOADING

MAIN

Ref.No.	Part No.	Description	Remark
< RESISTOR >			
R702	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R703	1-247-836-11	CARBON 1.6K 5% 1/4W	
R704	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R705	1-249-423-11	CARBON 3.3K 5% 1/4W F	
R706	1-249-426-11	CARBON 5.6K 5% 1/4W	
R707	1-247-856-00	CARBON 11K 5% 1/4W	
R708	1-249-435-11	CARBON 33K 5% 1/4W	
R727	1-247-856-00	CARBON 11K 5% 1/4W	
R728	1-249-435-11	CARBON 33K 5% 1/4W	
< SWITCH >			
S701	1-554-303-21	SWITCH, TACTILE (EX-CHANGE)	
S702	1-554-303-21	SWITCH, TACTILE (■)	
S703	1-554-303-21	SWITCH, TACTILE (▨)	
S704	1-554-303-21	SWITCH, TACTILE (▷◁)	
S705	1-554-303-21	SWITCH, TACTILE (◀▶)	
S706	1-554-303-21	SWITCH, TACTILE (▶▶)	
S707	1-554-303-21	SWITCH, TACTILE (DISC SKIP)	
S708	1-554-303-21	SWITCH, TACTILE (OPEN/CLOSE △)	
S727	1-554-303-21	SWITCH, TACTILE (▷)	
S728	1-554-303-21	SWITCH, TACTILE (◁)	

*	1-647-908-11	HEADPHONE BOARD	

< CAPACITOR >			
C151	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C251	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C353	1-164-159-11	CERAMIC 0.1uF 50V	
< CONNECTOR >			
* CN351	1-568-856-11	SOCKET, CONNECTOR 13P	
< JACK >			
J351	1-750-162-41	JACK (LARGE TYPE) (PHONES)	
< COIL >			
L151	1-412-473-21	INDUCTOR 0uH	
L251	1-412-473-21	INDUCTOR 0uH	
< VARIABLE RESISTOR >			
RV351	1-241-917-11	RES, VAR, CARBON 10K/10K/10K (VOLUME)	

Ref.No.	Part No.	Description	Remark
*	1-648-802-11	LOADING BOARD	

< MOTOR >			
M802	A-4604-834-A	MOTOR ASSY, LOADING	

*	A-4649-669-A	MAIN BOARD, COMPLETE (C435:US, Canadian)	

*	A-4649-672-A	MAIN BOARD, COMPLETE (C435:Australian)	

*	A-4649-677-A	MAIN BOARD, COMPLETE (C535:US, Canadian)	

*	A-4649-678-A	MAIN BOARD, COMPLETE (C535:AEP)	

*	A-4649-679-A	MAIN BOARD, COMPLETE (C535:E)	

	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
< CAPACITOR >			
C101	1-164-159-11	CERAMIC 0.1uF 50V	
C102	1-162-282-31	CERAMIC 100PF 10% 50V	
C103	1-162-213-31	CERAMIC 39PF 5% 50V (C535)	
C103	1-162-215-31	CERAMIC 47PF 5% 50V (C435)	
C104	1-162-213-31	CERAMIC 39PF 5% 50V (C535)	
C104	1-162-215-31	CERAMIC 47PF 5% 50V (C435)	
C105	1-124-994-11	ELECT 100uF 20% 10V	
C106	1-130-472-00	MYLAR 0.0012uF 5% 50V	
C107	1-106-359-00	MYLAR 4700PF 5% 200V	
C108	1-162-211-31	CERAMIC 33PF 5% 50V (C535)	
C109	1-126-101-11	ELECT 100uF 20% 16V (C535)	
C110	1-124-994-11	ELECT 100uF 20% 10V	
C111	1-124-463-00	ELECT 0.1uF 20% 50V (C535)	
C112	1-124-463-00	ELECT 0.1uF 20% 50V (C535)	
C113	1-130-467-00	MYLAR 470PF 5% 50V	
C201	1-164-159-11	CERAMIC 0.1uF 50V	
C202	1-162-282-31	CERAMIC 100PF 10% 50V	
C203	1-162-213-31	CERAMIC 39PF 5% 50V (C535)	
C203	1-162-215-31	CERAMIC 47PF 5% 50V (C435)	
C204	1-162-213-31	CERAMIC 39PF 5% 50V (C535)	
C204	1-162-215-31	CERAMIC 47PF 5% 50V (C435)	
C205	1-124-994-11	ELECT 100uF 20% 10V	
C206	1-130-472-00	MYLAR 0.0012uF 5% 50V	
C207	1-106-359-00	MYLAR 4700PF 5% 200V	
C208	1-162-211-31	CERAMIC 33PF 5% 50V (C535)	
C209	1-126-101-11	ELECT 100uF 20% 16V (C535)	
C210	1-124-994-11	ELECT 100uF 20% 10V	

MAIN

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C211	1-124-463-00	ELECT	0.1uF 20% 50V (C535)	C516	1-161-494-00	CERAMIC 0.022uF	25V
C212	1-124-463-00	ELECT	0.1uF 20% 50V (C535)	C531	1-104-905-11	CAP, DOUBLE LAYERS 0.22F	
C213	1-130-467-00	MYLAR	470PF 5% 50V	C532	1-164-159-11	CERAMIC 0.1uF	50V
				C533	1-161-494-00	CERAMIC 0.022uF	25V
C301	1-126-022-11	ELECT	47uF 20% 16V				
C302	1-164-159-11	CERAMIC	0.1uF 50V	C551	1-126-022-11	ELECT 47uF 20%	16V
C303	1-164-159-11	CERAMIC	0.1uF 50V	C552	1-126-022-11	ELECT 47uF 20%	16V
C304	1-162-208-31	CERAMIC	24PF 5% 50V (C435)	C562	1-164-159-11	CERAMIC 0.1uF	50V
C305	1-161-494-00	CERAMIC	0.022uF 25V	C601	1-161-494-00	CERAMIC 0.022uF	25V
				C602	1-126-937-11	ELECT 4700uF 20%	16V
C307	1-164-159-11	CERAMIC	0.1uF 50V				
C308	1-162-196-31	CERAMIC	5.6PF 10% 50V (C435)	C603	1-124-556-11	ELECT 2200uF 20%	16V
C308	1-162-199-31	CERAMIC	10PF 5% 50V (C535)	C604	1-126-022-11	ELECT 47uF 20%	16V
C309	1-162-196-31	CERAMIC	5.6PF 10% 50V (C435)	C605	1-126-163-11	ELECT 4.7uF 20%	50V
C309	1-162-199-31	CERAMIC	10PF 5% 50V (C535)	C606	1-126-163-11	ELECT 4.7uF 20%	50V
				C607	1-126-101-11	ELECT 100uF 20%	16V
C311	1-126-022-11	ELECT	47uF 20% 16V				
C312	1-161-494-00	CERAMIC	0.022uF 25V	C608	1-126-101-11	ELECT 100uF 20%	16V
C315	1-126-025-11	ELECT	330uF 20% 16V	C609	1-124-572-11	ELECT 100uF 20%	63V
C316	1-126-025-11	ELECT	330uF 20% 16V	C610	1-126-059-11	ELECT 10uF 20%	50V
C317	1-126-022-11	ELECT	47uF 20% 16V				
				< CONNECTOR >			
C318	1-126-022-11	ELECT	47uF 20% 16V	CN301	1-750-418-11	CONNECTOR, FFC/FPC 13P	
C319	1-126-049-11	ELECT	22uF 20% 25V	CN401	1-750-640-11	CONNECTOR, FFC/FPC 23P	
C351	1-126-023-11	ELECT	100uF 20% 16V	CN501	1-750-438-11	CONNECTOR, FFC/FPC 33P	
C352	1-126-023-11	ELECT	100uF 20% 16V	CN502	1-750-453-11	CONNECTOR, FFC/FPC 12P (C435)	
C401	1-126-022-11	ELECT	47uF 20% 16V	CN502	1-750-457-11	CONNECTOR, FFC/FPC 16P (C535)	
C402	1-164-159-11	CERAMIC	0.1uF 50V (C535)	CN504	1-750-223-11	CONNECTOR, FFC/FPC 6P	
C403	1-161-494-00	CERAMIC	0.022uF 25V (C535)	* CN601	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P	
C404	1-162-208-31	CERAMIC	24PF 5% 50V (C535)				
C405	1-126-022-11	ELECT	47uF 20% 16V (C535)	< DIODE >			
C406	1-164-159-11	CERAMIC	0.1uF 50V (C535)	D301	8-719-987-63	DIODE 1N4148M	
				D531	8-719-987-63	DIODE 1N4148M	
C407	1-164-159-11	CERAMIC	0.1uF 50V (C535)	D551	8-719-109-92	DIODE RD6.2ESB1	
C408	1-161-494-00	CERAMIC	0.022uF 25V (C535)	D601	8-719-200-82	DIODE 11ES2	
C409	1-126-022-11	ELECT	47uF 20% 16V (C535)	D602	8-719-200-82	DIODE 11ES2	
C410	1-164-159-11	CERAMIC	0.1uF 50V (C535)				
C411	1-164-159-11	CERAMIC	0.1uF 50V (C535)	D603	8-719-200-82	DIODE 11ES2	
				D604	8-719-200-82	DIODE 11ES2	
C412	1-164-159-11	CERAMIC	0.1uF 50V (C535)	D605	8-719-200-82	DIODE 11ES2	
C413	1-164-159-11	CERAMIC	0.1uF 50V (C535:AEP)	D606	8-719-110-13	DIODE RD9.1ESB2	
C414	1-164-159-11	CERAMIC	0.1uF 50V				
C415	1-162-208-31	CERAMIC	24PF 5% 50V (C435)	< PLATE, GROUND >			
C501	1-126-022-11	ELECT	47uF 20% 16V	* EB601	4-870-539-00	PLATE, GROUND	
C502	1-164-159-11	CERAMIC	0.1uF 50V	< IC >			
C503	1-164-159-11	CERAMIC	0.1uF 50V	IC301	8-752-359-50	IC CXD2564AM (C535)	
C504	1-164-159-11	CERAMIC	0.1uF 50V	IC301	8-752-360-60	IC CXD2565M (C435)	
C505	1-161-494-00	CERAMIC	0.022uF 25V	IC302	8-759-160-55	IC LA9216	
C506	1-162-294-31	CERAMIC	0.001uF 10% 50V	IC351	8-759-167-88	IC NJM4565D	
				IC401	8-759-917-18	IC SN74HC044AN (C535)	
C507	1-162-294-31	CERAMIC	0.001uF 10% 50V				
C508	1-162-294-31	CERAMIC	0.001uF 10% 50V	IC402	8-752-341-99	IC CXD2701Q (C535)	
C509	1-162-294-31	CERAMIC	0.001uF 10% 50V	IC403	8-759-508-41	IC MS51464-10NC (C535)	
C510	1-162-294-31	CERAMIC	0.001uF 10% 50V	IC404	8-759-032-81	IC MC74HC74AN (C535)	
C511	1-161-494-00	CERAMIC	0.022uF 25V				
C512	1-161-494-00	CERAMIC	0.022uF 25V				

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
IC405	8-749-921-12	IC GP1F32T (C535:AEP)		R109	1-249-419-11	CARBON 1.5K 5% 1/4W F	
IC501	8-752-849-43	IC CXP82220-007Q		R110	1-249-421-11	CARBON 2.2K 5% 1/4W F (C535)	
IC531	8-759-512-81	IC LH5160N-10L		R111	1-249-437-11	CARBON 47K 5% 1/4W (C535)	
IC551	8-759-172-31	IC BA6191		R112	1-249-424-11	CARBON 3.9K 5% 1/4W F (C535)	
IC561	8-759-803-42	IC LA6500-FA		R113	1-249-425-11	CARBON 4.7K 5% 1/4W F (C535)	
IC601	8-759-061-65	IC LA5602		R114	1-249-419-11	CARBON 1.5K 5% 1/4W F (C535)	
IC602	8-759-605-00	IC M5F78M07L		R115	1-249-425-11	CARBON 4.7K 5% 1/4W F (C535)	
IC603	8-759-633-42	IC M5293L		R116	1-249-417-11	CARBON 1K 5% 1/4W F	
		< JACK >		R117	1-249-417-11	CARBON 1K 5% 1/4W F	
J301	1-569-443-31	JACK, PIN 4P (LINE OUT)		R151	1-249-435-11	CARBON 33K 5% 1/4W	
		< COIL >		R152	1-249-432-11	CARBON 18K 5% 1/4W	
L301	1-412-297-11	INDUCTOR 3.3uH		R153	1-249-422-11	CARBON 2.7K 5% 1/4W F	
L302	1-412-473-21	INDUCTOR 0uH		R154	1-249-429-11	CARBON 10K 5% 1/4W	
L303	1-412-473-21	INDUCTOR 0uH		R155	1-249-402-11	CARBON 56 5% 1/4W F	
L304	1-412-297-11	INDUCTOR 3.3uH (C435)		R201	1-249-436-11	CARBON 39K 5% 1/4W	
L305	1-412-297-11	INDUCTOR 3.3uH (C535)		R202	1-249-436-11	CARBON 39K 5% 1/4W	
L306	1-412-473-21	INDUCTOR 0uH		R203	1-249-431-11	CARBON 15K 5% 1/4W	
L401	1-412-297-11	INDUCTOR 3.3uH (C535)		R204	1-249-431-11	CARBON 15K 5% 1/4W	
L402	1-412-297-11	INDUCTOR 3.3uH (C535)		R205	1-249-437-11	CARBON 47K 5% 1/4W (C435)	
		< TRANSISTOR >		R205	1-249-438-11	CARBON 56K 5% 1/4W (C535)	
Q101	8-729-231-55	TRANSISTOR 2SC2878-AB (C535)		R206	1-249-437-11	CARBON 47K 5% 1/4W (C435)	
Q102	8-729-231-55	TRANSISTOR 2SC2878-AB (C535)		R206	1-249-438-11	CARBON 56K 5% 1/4W (C535)	
Q201	8-729-231-55	TRANSISTOR 2SC2878-AB (C535)		R207	1-249-429-11	CARBON 10K 5% 1/4W	
Q202	8-729-231-55	TRANSISTOR 2SC2878-AB (C535)		R208	1-249-419-11	CARBON 1.5K 5% 1/4W F	
Q301	8-729-900-89	TRANSISTOR DTC144ES		R209	1-249-419-11	CARBON 1.5K 5% 1/4W F	
Q302	8-729-620-05	TRANSISTOR 2SC2603-EF		R210	1-249-421-11	CARBON 2.2K 5% 1/4W F (C535)	
Q501	8-729-620-05	TRANSISTOR 2SC2603-EF		R211	1-249-437-11	CARBON 47K 5% 1/4W (C535)	
Q502	8-729-900-65	TRANSISTOR DTA144ES (C535)		R212	1-249-424-11	CARBON 3.9K 5% 1/4W F (C535)	
Q503	8-729-900-65	TRANSISTOR DTA144ES (C535)		R213	1-249-425-11	CARBON 4.7K 5% 1/4W F (C535)	
Q504	8-729-620-05	TRANSISTOR 2SC2603-EF		R214	1-249-419-11	CARBON 1.5K 5% 1/4W F (C535)	
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE		R215	1-249-425-11	CARBON 4.7K 5% 1/4W F (C535)	
Q602	8-729-900-61	TRANSISTOR DTA114ES		R216	1-249-417-11	CARBON 1K 5% 1/4W F	
Q603	8-729-900-80	TRANSISTOR DTC114ES		R217	1-249-417-11	CARBON 1K 5% 1/4W F	
Q604	8-729-900-89	TRANSISTOR DTC144ES		R251	1-249-435-11	CARBON 33K 5% 1/4W	
Q605	8-729-900-61	TRANSISTOR DTA114ES		R252	1-249-432-11	CARBON 18K 5% 1/4W	
		< RESISTOR >		R253	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R101	1-249-436-11	CARBON 39K 5% 1/4W		R254	1-249-429-11	CARBON 10K 5% 1/4W	
R102	1-249-436-11	CARBON 39K 5% 1/4W		R255	1-249-402-11	CARBON 56 5% 1/4W F	
R103	1-249-431-11	CARBON 15K 5% 1/4W		R301	1-249-417-11	CARBON 1K 5% 1/4W F	
R104	1-249-431-11	CARBON 15K 5% 1/4W		R302	1-249-413-11	CARBON 470 5% 1/4W F (C435)	
R105	1-249-437-11	CARBON 47K 5% 1/4W (C435)		R302	1-249-417-11	CARBON 1K 5% 1/4W F (C535)	
R105	1-249-438-11	CARBON 56K 5% 1/4W (C535)		R303	1-247-903-00	CARBON 1M 5% 1/4W (C535)	
R106	1-249-437-11	CARBON 47K 5% 1/4W (C435)		R303	1-249-425-11	CARBON 4.7K 5% 1/4W F (C435)	
R106	1-249-438-11	CARBON 56K 5% 1/4W (C535)		R304	1-249-413-11	CARBON 470 5% 1/4W F (C535)	
R107	1-249-429-11	CARBON 10K 5% 1/4W		R305	1-249-441-11	CARBON 100K 5% 1/4W (C535)	
R108	1-249-419-11	CARBON 1.5K 5% 1/4W F		R306	1-249-441-11	CARBON 100K 5% 1/4W (C535)	
				R307	1-249-429-11	CARBON 10K 5% 1/4W	
				R308	1-249-433-11	CARBON 22K 5% 1/4W	
				R309	1-249-405-11	CARBON 100 5% 1/4W F	
				R351	1-249-405-11	CARBON 100 5% 1/4W F	

MAIN

POWER SW

Ref.No.	Part No.	Description	Remark
R352	1-249-405-11	CARBON 100 5%	1/4W F
R401	1-247-903-00	CARBON 1M 5%	1/4W (C535)
R402	1-249-417-11	CARBON 1K 5%	1/4W F (C535)
R403	1-249-413-11	CARBON 470 5%	1/4W F (C535)
R405	1-249-417-11	CARBON 1K 5%	1/4W F (C535)
R406	1-249-417-11	CARBON 1K 5%	1/4W F (C535)
R407	1-249-417-11	CARBON 1K 5%	1/4W F (C535)
R408	1-249-417-11	CARBON 1K 5%	1/4W F (C535)
R409	1-249-417-11	CARBON 1K 5%	1/4W F (C535)
R410	1-249-417-11	CARBON 1K 5%	1/4W F (C535)
R501	1-249-441-11	CARBON 100K 5%	1/4W
R502	1-249-429-11	CARBON 10K 5%	1/4W
R503	1-249-429-11	CARBON 10K 5%	1/4W
R504	1-249-417-11	CARBON 1K 5%	1/4W F (C535)
R505	1-249-417-11	CARBON 1K 5%	1/4W F
R506	1-249-417-11	CARBON 1K 5%	1/4W F
R507	1-249-417-11	CARBON 1K 5%	1/4W F
R508	1-249-417-11	CARBON 1K 5%	1/4W F
R509	1-249-417-11	CARBON 1K 5%	1/4W F
R510	1-249-428-11	CARBON 8.2K 5%	1/4W F
R511	1-249-428-11	CARBON 8.2K 5%	1/4W F
R512	1-249-428-11	CARBON 8.2K 5%	1/4W F
R513	1-249-428-11	CARBON 8.2K 5%	1/4W F
R514	1-249-428-11	CARBON 8.2K 5%	1/4W F
R515	1-249-429-11	CARBON 10K 5%	1/4W
R516	1-249-421-11	CARBON 2.2K 5%	1/4W F
R517	1-249-424-11	CARBON 3.9K 5%	1/4W F
R518	1-249-425-11	CARBON 4.7K 5%	1/4W F
R519	1-249-427-11	CARBON 6.8K 5%	1/4W F
R520	1-249-428-11	CARBON 8.2K 5%	1/4W F
R521	1-249-411-11	CARBON 330 5%	1/4W
R522	1-249-430-11	CARBON 12K 5%	1/4W
R523	1-249-429-11	CARBON 10K 5%	1/4W
R531	1-249-399-11	CARBON 33 5%	1/4W F
R532	1-249-417-11	CARBON 1K 5%	1/4W F
R533	1-249-429-11	CARBON 10K 5%	1/4W
R534	1-249-429-11	CARBON 10K 5%	1/4W
R535	1-249-429-11	CARBON 10K 5%	1/4W
R536	1-249-429-11	CARBON 10K 5%	1/4W
R537	1-249-429-11	CARBON 10K 5%	1/4W
R538	1-249-429-11	CARBON 10K 5%	1/4W
R539	1-249-429-11	CARBON 10K 5%	1/4W
R540	1-249-429-11	CARBON 10K 5%	1/4W
R541	1-249-429-11	CARBON 10K 5%	1/4W
R542	1-249-429-11	CARBON 10K 5%	1/4W
R543	1-249-429-11	CARBON 10K 5%	1/4W
R544	1-249-429-11	CARBON 10K 5%	1/4W
R545	1-249-429-11	CARBON 10K 5%	1/4W
R551	1-249-425-11	CARBON 4.7K 5%	1/4W F
R552	1-247-840-00	CARBON 2.4K 5%	1/4W
R552	1-249-425-11	CARBON 4.7K 5%	1/4W F

Ref.No.	Part No.	Description	Remark
R553	1-247-828-11	CARBON 750 5%	1/4W
R553	1-247-838-00	CARBON 2K 5%	1/4W
R554	1-249-418-11	CARBON 1.2K 5%	1/4W F
R554	1-249-421-11	CARBON 2.2K 5%	1/4W F
R555	1-249-439-11	CARBON 68K 5%	1/4W
R556	1-249-439-11	CARBON 68K 5%	1/4W
R557	1-249-439-11	CARBON 68K 5%	1/4W
R558	1-249-439-11	CARBON 68K 5%	1/4W
R561	1-249-441-11	CARBON 100K 5%	1/4W
R562	1-249-441-11	CARBON 100K 5%	1/4W
R563	1-249-441-11	CARBON 100K 5%	1/4W
R564	1-249-441-11	CARBON 100K 5%	1/4W
R565	1-249-393-11	CARBON 10 5%	1/4W F
R601	1-249-435-11	CARBON 33K 5%	1/4W
R602	1-249-429-11	CARBON 10K 5%	1/4W
R603	1-249-438-11	CARBON 56K 5%	1/4W
R604	1-249-405-11	CARBON 100 5%	1/4W F
R605	1-249-405-11	CARBON 100 5%	1/4W F
R606	1-249-429-11	CARBON 10K 5%	1/4W
< SWITCH >			
△S601	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (C535:E)	
< TRANSFORMER >			
△T901	1-423-553-11	TRANSFORMER, POWER (US, CND)	
△T901	1-423-554-11	TRANSFORMER, POWER (AUS, AEP)	
△T901	1-423-555-11	TRANSFORMER, POWER (E)	
< VIBRATOR >			
X301	1-579-314-11	VIBRATOR, CRYSTAL (22MHz) (C535)	
X301	1-579-834-11	VIBRATOR, CRYSTAL (33MHz) (C435)	
X501	1-579-175-11	VIBRATOR, CERAMIC (10MHz)	

*	1-647-907-11	POWER SW BOARD	

< CAPACITOR >			
C781	1-161-494-00	CERAMIC 0.022uF	25V
< IC >			
IC781	8-741-100-48	IC SBX1610-59	
< RESISTOR >			
R737	1-247-856-00	CARBON 11K 5%	1/4W
R738	1-249-435-11	CARBON 33K 5%	1/4W
R752	1-249-418-11	CARBON 1.2K 5%	1/4W F
R753	1-247-836-11	CARBON 1.6K 5%	1/4W
R754	1-249-421-11	CARBON 2.2K 5%	1/4W F

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

POWER SW

SENSOR

TABLE MOTOR

Ref.No.	Part No.	Description	Remark
R755	1-249-423-11	CARBON 3.3K 5% 1/4W F	
R756	1-249-426-11	CARBON 5.6K 5% 1/4W	
R757	1-247-856-00	CARBON 11K 5% 1/4W	
< SWITCH >			
S737	1-554-303-21	SWITCH, TACTILE (CONTINUE PLAY MODE)	
S738	1-554-303-21	SWITCH, TACTILE (SHUFFLE PLAY MODE)	
S751	1-554-303-21	SWITCH, TACTILE (DISC 1)	
S752	1-554-303-21	SWITCH, TACTILE (DISC 2)	
S753	1-554-303-21	SWITCH, TACTILE (DISC 3)	
S754	1-554-303-21	SWITCH, TACTILE (DISC 4)	
S755	1-554-303-21	SWITCH, TACTILE (DISC 5)	
S756	1-554-303-21	SWITCH, TACTILE (REPEAT)	
S757	1-554-303-21	SWITCH, TACTILE (PROGRAM PLAY MODE)	
S781	1-572-714-11	SWITCH, PUSH (POWER)	

*	1-647-362-11	SENSOR BOARD	

< CONNECTOR >			
CN801	1-573-383-11	PIN, CONNECTOR (PC BOARD) 2P	
CN802	1-750-243-11	SOCKET, CONNECTOR 6P	
< DIODE >			
D801	8-749-924-18	DIODE IC RPI-1391	
D802	8-749-924-30	DIODE PHOTO SENSOR GP2S28	
< RESISTOR >			
R801	1-249-416-11	CARBON 820 5% 1/4W F	
R802	1-249-406-11	CARBON 120 5% 1/4W F	

*	1-647-364-11	TABLE MOTOR BOARD	

< MOTOR >			
M801	A-4660-322-A	MOTOR ASSY, ROTARY (TABLE)	

MISCELLANEOUS			

2	1-751-122-11	WIRE (FLAT TYPE) (13 CORE)	
5	1-751-120-11	WIRE (FLAT TYPE) (16 CORE) (C535)	
5	1-751-121-11	WIRE (FLAT TYPE) (12 CORE) (C435)	
8	1-751-119-11	WIRE (FLAT TYPE) (33 CORE)	
53	1-751-052-11	WIRE (FLAT TYPE) (6 CORE)	
△64	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
△74	1-575-651-21	CORD, POWER (AEP)	

Ref.No.	Part No.	Description	Remark
△74	1-590-836-11	CORD, POWER (US, CND)	
△74	1-696-027-11	CORD, POWER (E)	
△74	1-696-845-11	CORD, POWER (AUS)	
122	1-751-123-11	WIRE (FLAT TYPE) (23 CORE)	
* 124	1-452-538-11	MAGNET	
△151	8-848-144-11	DEVICE, OPTICAL KSS-240A	
152	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
FL701	1-517-164-11	INDICATOR TUBE, FLUORESCENT	
M101	X-4917-523-3	BASE (OUTSERT) ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
M801	A-4660-322-A	MOTOR ASSY, ROTARY (TABLE)	
M802	A-4604-834-A	MOTOR ASSY, LOADING	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	
△S601	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (C535:E)	
S901	1-466-996-11	ENCODER, ROTARY	
△T901	1-423-553-11	TRANSFORMER, POWER (US, CND)	
△T901	1-423-554-11	TRANSFORMER, POWER (AUS, AEP)	
△T901	1-423-555-11	TRANSFORMER, POWER (E)	

ACCESSORIES & PACKING MATERIALS			

	1-467-075-11	REMOTE COMMANDER (RM-D535) (C535)	
	1-467-076-11	REMOTE COMMANDER (RM-D435) (C435)	
	1-558-271-11	CORD, CONNECTION (PHONO X2-PHONO X2)	
	3-707-584-01	COVER, BATTERY (for REMOTE COMMANDER)	
	3-756-684-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (AEP, E)	
	3-756-684-21	MANUAL, INSTRUCTION (ENGLISH) (US, CND, AUS)	
	3-756-684-31	MANUAL, INSTRUCTION (FRENCH) (CND)	
	3-756-684-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, ITALIAN, PORTUGUESE) (AEP)	
*	4-944-110-01	CUSHION (FRONT)	
*	4-944-111-01	CUSHION (REAR)	
*	4-958-475-01	INDIVIDUAL CARTON (C435)	
*	4-958-476-01	INDIVIDUAL CARTON (C535)	

HARDWARE LIST			

#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-682-548-04	SCREW +BVTT 3X8 (S)	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#4	7-685-134-19	SCREW +PTPH 2.6X8 (TYPE2)	
#5	7-685-648-79	SCREW (M3X12), TAPPING	
#6	7-621-772-00	SCREW +B 2X3	
#7	7-621-255-15	SCREW +P 2X3	

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CDP-C435/C535

SONY[®] SERVICE MANUAL

SUPPLEMENT-1

File this Supplement with the Service Manual.

US Model
Canadian Model
CDP-C435/C535

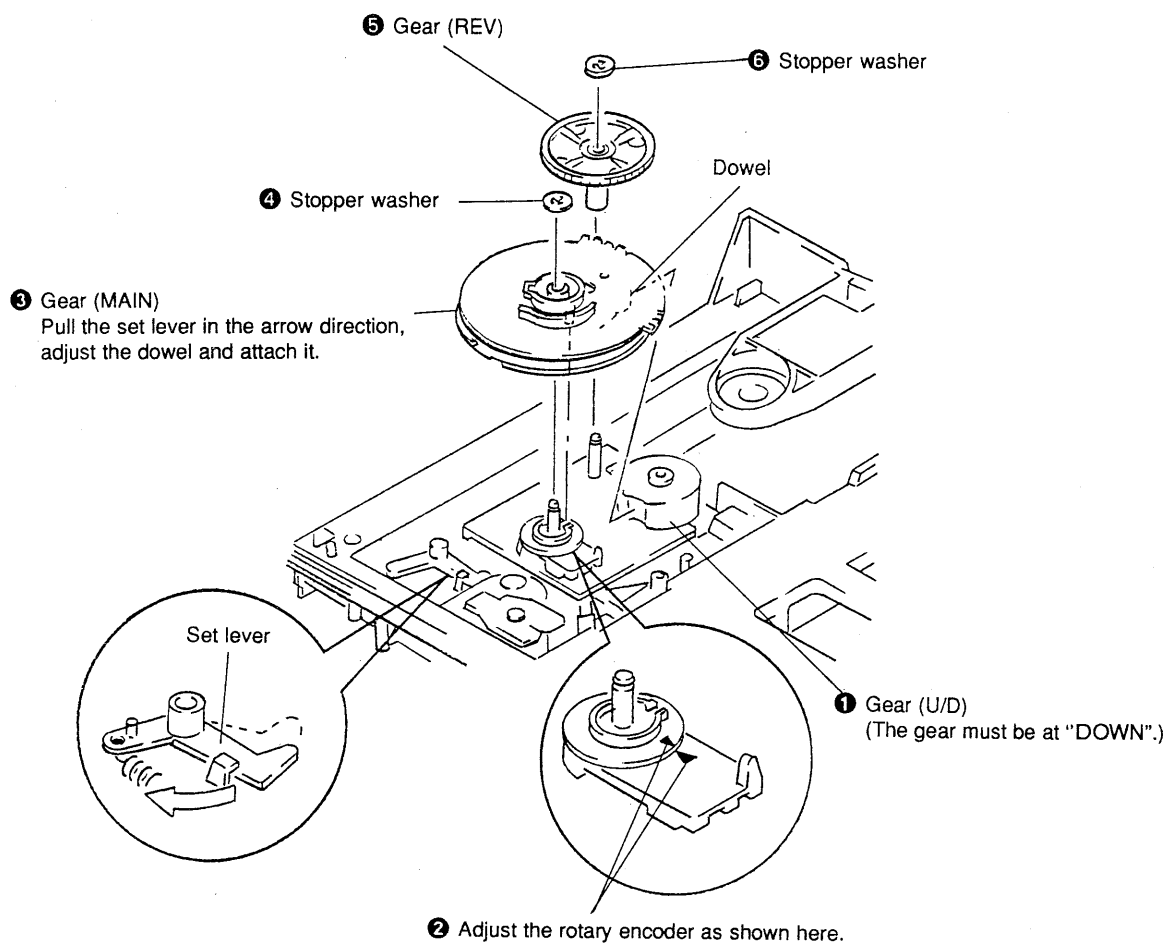
AEP Model
E Model
CDP-C535

Australian Model
CDP-C435

Subject : Positioning the Encoder When Attaching the Gear (MAIN)

The position of the rotary encoder must be adjusted when attaching the gear (MAIN). If its position is not adjusted properly, problem may occur afterwards during operation.

: Correction

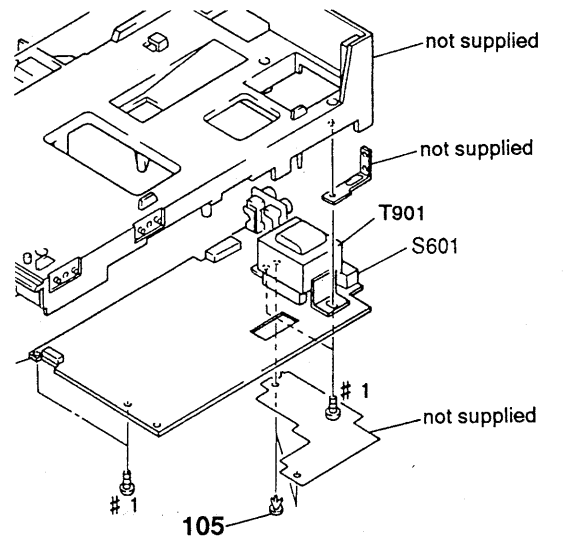
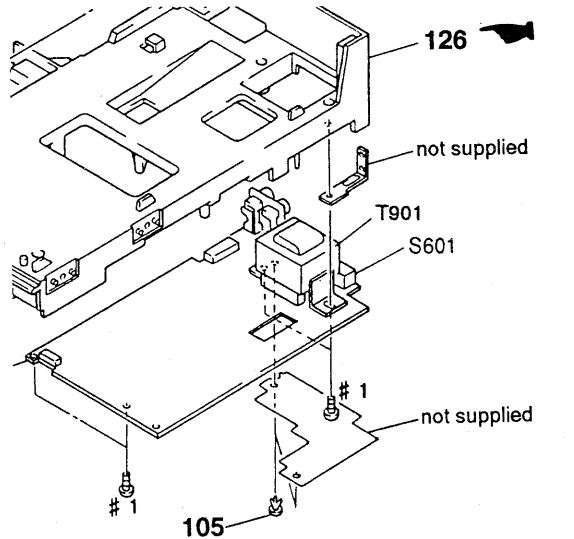


CORRECTION

Please correct your Service Manual.

6-3. CHASSIS ASSEMBLY (Page 35)

✖ : Corrected portion

Incorrect				Correct			
							
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
				* 126	4-957-300-03	CHASSIS ✖	